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 ggcaaacgcg gataccctg aggatgcatt ggctgcgcgg aacacggggc agaaggaatc 600
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<210> 12065
 <211> 647
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-095-Q1-K6-E8
 <400> 12065

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 cgactattat tccacaatgc tcacaacaat acctctctcc ggtgacagcc gcgagatttg 180
 aatacccaac tatacaatcc tacaggctac aagaggccat cgcagcaage atcttacggc 240
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 tatatctcca aagaatcgca gcacaacaac tacaacaaca gttgcttcca acaatcaatc 360
 aagtagttgc agcgaacctt gctgcttacc tccagcaaca acaatttctt ccattcaatc 420
 aactagctgg ggtgaacctt gctgcttact tgcaggcaca acagctacta ccattcaacc 480
 aacttgctag gagccctgct gccttcttac tgcagcaaca gttgcttcca ttccatctac 540
 aagttgtggc aaacattgct gctttcttgc aacaacaaca acaattgctg ccattttacc 600
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<210> 12066
 <211> 654
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-095-Q1-K6-E9

<400> 12066

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cgttcttccc tagcgttgcc acggcgaagc tggagctgaa ctctctgtac aggaagtacg 180
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tgattccaga ccgtttttct gggtggcaat ctatccttag acaaagtgtc aacctccgtg 540
gagaaccagt tctggtcgtg gacaataatg agctgggcaa tgatcagata ttatcgagct 600
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<210> 12067

<211> 489

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-095-Q1-K6-F1

<400> 12067

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tggcggcgac aatggcagtg acgacgatgg tgaccaggag caaggagagc tggtcgtcat 120
tgcagggtccc ggcggtggca ttcccttggga agccacgagg cgggtggcaag accggcggcc 180
tcgagttccc tcgccgggcy atgttcgcca gcgtcggcct caacgtgtgc cggggcgctc 240
cggcggggcg cgaccgcgg gagcccgatc ccaaggctgt acgggcccgc gacaactgcg 300
acatcgcgcy ccagcttggc gccgccgttc ccgggcagca ggccccctgg gaggcggagg 360
aagaggcatc caacaggagg aagcagaagg gcggttgag caagaagcgc atcagctggg 420
cgatctgagc ctgaggaagg tcagggtcaa tattcacaac ccgcacctgc ggcattctgg 480

tagcgacgc

489

<210> 12068

<211> 653

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-095-Q1-K6-F10

<400> 12068

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catcagccct attacatcag ttacctttgg tgcatttatt ggcacaaaac atcagggcac 180

aacaactaca acaacttggt ctagcaaacc ttgctgccta ctctcagcaa cagcagtttc 240

ttccattcaa ccaactagct gcattgaact ctgcttctta tttgcaaca caacaactac 300

cattcagcca gctacctgct gcctaccccc agcaatttct tccattcaac caactggcag 360

cattgaactc tcttgcttat ttacagcagc aacaactact accattcagc cagctagctg 420

gtgtgagccc tgctaccttc ttgatacaac cacagttggt gccgttctac cagcacgctg 480

cgcctaacgc tggcaccctc ttacaactgc aacaattgct gccattcaac caacttgctt 540

tgacaaaacc agcagcgctc taccaacaac ccatcattgg tgggtgccctc ttttagattt 600

cttatgagtt atagttcaat aataaagttt tttgtctgat gtttgtggct tcc 653

<210> 12069

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-095-Q1-K6-F11

<400> 12069

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aaaatttttt tttgggttcc ccccttaaat aaaaaaaaaa aggggggggc cttttggggg 120

taaaaatttc ttggcggggg ggggggaaat taattttttt tttttggggc cccaaaaaaa 180

aaattagggg gcgggggttt caaacccggg ggggggggaa acccgggggg cccccaaaaa 240

aaaggggtgg agaaaaacc cttttttgcc cgggggggaa aaaaaaagg gggccccccc 300

aatcctcctt ttaaaatatt ggcgccctt aggggggggag ggggcccccc cttggggggg 360
attataaacg gggggggggg ggggtgtccc c 391

<210> 12070

<211> 509

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-095-Q1-K6-F2

<400> 12070

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ggatcgccgc cgccgcccgg ctgacgacgc gacataagaa agaagacggc ggccacggcg 180
tcctgggtgaa gctccacgac gacgtccaga cgtgcgcgta cgaggacgtg caggtgatgt 240
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<210> 12071

<211> 648

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-095-Q1-K6-F3

<400> 12071

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agccctcctt gcgcttcttg ccctttttgt gagcgcaaca aatgcgttca ttattccaca 120
atgctcactt gtccttagtg ccattattcc acagtctctc ccaccagtta cttcaatggg 180
cttogaacac ctagctgtgc aagccaacat gcaacaacaa gcgcttgcgg cgagcgtctt 240
acaacaacca attgcccaat tgcaacaaca atccttgcca catctaacaa tacaagccat 300

cacaacgcaa cagcaacaac agttcctacc agcactgagc cacctagcca tggatgaaccc 360
 tgccgcctac ttgcaagagc agctgcttgc atccaaccca cttgctctgg cgaacgtagt 420
 tgcaaaccag caacaacaac agctacaaca gtttctgcca acgctcagtc aactagccat 480
 ggtgaaccct gccgcctacg tacaacaaca acaactgctt tcacttagcc cgctcgctgt 540
 gggcaatgca cctacatacc tgcaacaaca attgttgcaa cagattgtac cagctctgac 600
 tcactagctg tggcaaaccg tgttgcttac ttgcaacagc tgctttca 648

<210> 12072

<211> 630

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-095-Q1-K6-F4

<400> 12072

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 cagcatccag tgcttcaggt agggcagcat ctggcatgtc aagtgatgaa aagaaccagc 120
 gtcagagaga tgctcgagtt cttatgccgc caccacgtc attagcccca aatagaggca 180
 gacatgcaga taaacgtgag atatccagct cgagcagtag ttcaaacagc acaagcggcg 240
 aatcatttaa aaatagaaga gtaccaaata gtcccgggga taataacagt aatctgagct 300
 caaattctga tgttcataaa ccacggcgca aaaggaggca taagaagaaa agaaagctgc 360
 aggcagtagt aatattccca aagcgcgtga actgtggggg tccgggtggaa attcagattc 420
 ccagcgaagt ttggactttg agcatggcca atttgagaga gttgaaaaaa aaatagacac 480
 agcatgtgag atgtgtctga gcaagttgat tgattctgta tcctcactcc taaaacgact 540
 gtacatccat ctgttcattg atatcacttg cggtacgaa tgcttgtcca tcatttcgcg 600
 cgtgaaatta tgtatgtttt tttctctctc 630

<210> 12073

<211> 581

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-095-Q1-K6-F6

<400> 12073

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 acaatgctca cttgctccta gtgccattat accacagttc ctccgaccag ttacttcaat 180
 gggcttcgaa cacctagctg tgcaagccta caggctacaa caagcgcttg cggcgagcgt 240
 cttacaacaa ccaattaacc aattgcaaca acaatccttg gcacatctaa ccatacaaac 300
 catcgcaaca caacagcaac aacagttcct accagcactg agccaactag atgtggtgaa 360
 ccctgtcgcc tacttgcaac agcaggtgct tgcattcaac ccacttgctc tggcaaacgt 420
 agctgcatac caacaacaac aacaattgca acagtttctg ccagcgctca gtcaactagc 480
 catggtgaac cctgccgcct acctacaaca gcaacaactg ctttcatcta gccctctcgt 540
 tgtgggtaat gcacctacat acctgcaaca acaattgctg c 581

<210> 12074
 <211> 493
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-095-Q1-K6-F8
 <400> 12074

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 ggtggaggtg ccggcggagc tgggtggcggc gggcagccgg acgccgtcgc ccaagtacga 180
 aggcgtcgca gctcgtgggg cgcttccttg ccgcgtccga gccggccgtg tccgtgcagc 240
 tcggcgacca cggccacctc gcctactccc acaccaacca ggcgctcctc cgccccaggt 300
 cgttcgcggc caaggacgag gtgttctgcc tgttcgaagg ggtgctggac aacctgggtc 360
 ggctgagcca gcagcacggg ctgtcaagca agggcgccaa cgaggtgctc ctcgtcatcg 420
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<210> 12075
 <211> 566
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-095-Q1-K6-G1

<400> 12075

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gcgtggtggt ggcattttcg ctatcgggaa tgtggtacag cccaaagtaa agacgacgcc 240
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tacacttnag cttncaacaa gtacttttga ttcgggtgac agtaaaggca ctattattga 360
cagtgggaca aactggcat attttncgag ggaagtttat aggactatgt tggttgnggt 420
ctttgataag taccaagatc tggccttaca taattatgaa gactttgtgt gttttcaatt 480
ttntggaagt atagatgatg gattttccgt gattacctt agttttgagg gagaccttac 540
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<210> 12076

<211> 648

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-095-Q1-K6-G10

<400> 12076

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tttcatctca gaaagatctc ctcatntaaa acggttggtt atgccagcat ggaaccgcat 120
caccaaagtg ggaatatgta atgctatcca aagggtggcag gcgctggagt ccttgacaat 180
gcctaccatc ggacatcctc catatattat ggaagagata gcaaggagct gcaagaattt 240
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ccttccaaag ctgaaagtgc tgagccttcg ttgctogaag gtgtccatgg atgcactgca 360
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ggttgtggcg gcaaatgggc ggaagcaagt gggtcatgaa ctggacagcc aaattctcga 480
gagagcttca cggctgcgtg aattccacta ctgccaaagt aggttgtgcg tcgctgcca 540

gcgggatggtg gtggatgaag gcatcatgcg ctggtacagg tacgaggatt ggttttggcg 600
tcgggatgag gtgaggtccc ttgatctgca agatatggga agctgttt 648

<210> 12077

<211> 640

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-095-Q1-K6-G11

<400> 12077

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atggttcttt gcgtcgctgt cactattgca tttcgtgata ctactcttat tggcaatgcc 120
tacggtattg catgcatgac tgttatgctt gttactacct tcttgatggc' attaatagtc 180
atctttgttt ggcaaaggaa cataatatTT tccctagttt tcttggtttt ctttggatcc 240
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cttgtgcttg cattcatatt catgtcagtc atgtacatct ggcactatgg gtcaaggagg 360
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tttctctgtg tgaagtcagt gccagtgcc tatgtttcac cagatgagcg ataccttgtg 600
ggtaggattg gacctaaaaa tatcggtatg accgttgcac 640

<210> 12078

<211> 659

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-095-Q1-K6-G12

<400> 12078

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agcttggctt ggagaagggg tggggtgaca ctgcgaagcg tgtactcgac acactccact 120
tgcttctoga ccttctggag gccctgatc ctgccaaactt ggagaagttc cttggaacta 180

taccaatgat gttcaacgtt gttatcctgt ctccatcatgg ctacttcgcc cagtccaatg 240
 tgcttgata ccctgacact ggcggtcagg ttgtgtacat tctggatcag gtccgtgctt 300
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<210> 12079

<211> 528

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-095-Q1-K6-G2

<400> 12079

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 agctcgggtc gtacatttta cagttgctat ttgtatactg tgatgttctc gtatgtttgt 480
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<210> 12080

<211> 595

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-095-Q1-K6-G3

<400> 12080

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 ccagcgaagt ttggactttg agcatggcca atttggagaa gttgaaaaaa aaatgacaca 480
 gcatgtgcga tgtgtctgag caagttgatt gattctgtat cctcactcct aaaacgactg 540
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<210> 12081

<211> 592

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-095-Q1-K6-G4

<400> 12081

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 cctatagctt cccttcttcc cccgtacctc tcaccagcgg tgtcttcggg atgtgaaaac 180
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 ccattcaacc aactagcagc attgaactct cctgcttatt tacagcagca acaactacta 540
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<210> 12082

<211> 647

<212> DNA

<213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-095-Q1-K6-G6

<400> 12082

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<210> 12083
 <211> 627
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-095-Q1-K6-G7

<400> 12083

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tatttgcaac aacaacaact accattcagc cagctacctg ctgcctaccc ccagcaattt 480
 cttccattca accaactagc agcattgaac tctcctgctt atttacagca gcaacaacta 540
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<210> 12084
 <211> 584
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-095-Q1-K6-G8
 <400> 12084

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<210> 12085
 <211> 259
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-095-Q1-K6-H1
 <400> 12085

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 cagtcggcgg cgtcaagcac ggcaccggcg gaatgaggca cggcacggga accggcggcg 180

gcatgggccca aatgggtgag cacggcggag ctggcatggg tggaaggcag atacagcctg 240
cgagggagga gtacaagac 259

<210> 12086

<211> 664

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-095-Q1-K6-H10

<400> 12086

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tcctatagct tcccttcttc cccgtacct ctcaccagcg gtgtcttcgg tatgtgaaaa 180
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ctctcagcaa cagcagtttc ttccattcaa ccaactagct gcattgaact ctgcttctta 420
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gccca 664

<210> 12087

<211> 636

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-095-Q1-K6-H11

<400> 12087

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aactgtgcag ctaaattgtt caactgaatc tcgagttttc gaagaacaaa aggaagtaca 120

aagttgatat tcttcgatgt gagagcttaa cctcacttgc cccggctaca ttagaacggc 180
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 ggtcttgga tggctctgtg gtgggtggat tatggggaaa gtttgaaggg aacttactga 480
 agggcaactt attgttacac tgcttgaatt cgatgctgaa acaatctgct gtactgggtc 540
 aaccacttag tatacatgat cttgatagct aggaacactt gtcactgtgg atatcccttt 600
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<210> 12088
 <211> 655
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-095-Q1-K6-H12
 <400> 12088

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 atagcttccc ttcttcccc gtacctctca ccaacgggtgt cttcggtatg tgaaaaccca 180
 attcttcaac cctacaggat ccaacaggca atcgagctg gcattctacc tttatcacc 240
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 cagcaacagc agtttcttcc attcaaccaa ctagctgcat tgaactctgc ttcttatttg 420
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 ttcagccagc tagctgggtg gagccctgct accttcttga cacaaccaca gttgttgccg 600
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<210> 12089
 <211> 404

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-095-Q1-K6-H2

<400> 12089

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 tggccgtctg ccaaggcgag gtcgagcggc agaggctcag ggacctgcag tgctggcagg 180
 aggtccagga gagcccgtc gacgcgtgcc gccaggctct cgaccggcag ctaaccggcg 240
 gcggcgctcag cggcccgttc cgggtggggca cggggctccg gatgcggtgc tgccagcagc 300
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<210> 12090
 <211> 389
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-095-Q1-K6-H3

<400> 12090

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 agaaatcact accagggtgac acaaggattg gagtgtatac aaagtctgtc acagttagtc 180
 tggttgacac acaaccaagc ctgcaatgtg tctaaaaata tcgtcgccac aatgaagagg 240
 aaggaaggac aaattaataa agaactttgt acctacgaca atgcagaccc ggatctacga 300
 tgggaacaat agatgatgag caaagtttaa taatatccca tgatgaataa caataccgtc 360
 gtgctgatgg catttcagat tcataactca 389

<210> 12091
 <211> 349
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-095-Q1-K6-H4

<400> 12091

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tttcacattc ccataagttt gccgttggtta ctagagttca agctgtgtgg agtgaagatg 180

gagaatggta taatgcaacc gttgaagctt tgacaccaaa tggatactat gtagcctacg 240

atggctgggg aaacagggaa gaggtggacc cagataatgt taggctgctt gaggaagaag 300

cagctgatgc cttgggacaa gctgaaaagg aagctaaaac ttcaaaaat 349

<210> 12092

<211> 692

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-095-Q1-K6-H5

<400> 12092

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cgaccatttt ccacaatgc tcacaagctc ctatagcttc ccttcttccc ccgtacctct 180

caccaacggg gtcttcggta tgtgaaaacc caattcttca accctacagg atccaacagg 240

caatcgcagc tggcatctta cctttatcac ccttggttct ccaacaatca tcagccctat 300

tacagcagtt acctttggtg catttattgg cacaaaacat cagggcacaa caactacaac 360

aacttgtgct agcaaacctt gctgcctact ctgagcaaca gcagtttctt ccattcaacc 420

aactagctgc attgaactct gcttcttatt tgcaacaaca acaactacca ttcagccagc 480

tatctgctgc ctacccccag caatttcttc cattcaacca actgacagca ttgaactctc 540

ctgcttattt acaggcagca acaactacta ccattcagcc agctagctgg tgtgagccct 600

gtacaccttct tgacacaacc acaattgttg cctgtctaac aaaactctgc gcctaacgct 660

tgcacccttt ttacaactga aacaattgcc ta 692

<210> 12093

<211> 600

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-095-Q1-K6-H7

<400> 12093

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attattcttt ggacatgtgg agtctgggct gcatgtttgc tgggatgatt tttcgtaagg 180
aaccattttt ctacgggcat gacaaccacg atcaacttgt taagatagcc aagggtacttg 240
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aggagaggct tactgcactt gaagctatga cgcacccgta cttccaacaa gtgagagccg 480
ctgagaacag caggacgcga gcgtgacatg caaagagcga agaccatctg ctcttttatc 540
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<210> 12094

<211> 536

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-095-Q1-K6-H8

<400> 12094

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ggtggaggtg ccggcggagc tgggtggcggc gggcagccgg acgccgtcgc ccaagacgaa 180
ggcgtcgcag ctctgtgggc gcttcctggc cgcgtccgag ccggccgtgt ccgtgcagct 240
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gttcgcggcc aaggacgag tgttctgcct gttcgaaggg gtgctggaca acctgggtcg 360
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ggcctacaag acgctgcgcg accgcgcgcc ctacccggcc agcttcatgc tcgccagct 480
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<210> 12095
 <211> 632
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-095-Q1-K6-H9

 <400> 12095

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gacaagagca gcgtccatga tgttgtcctt gttggtggct ccactaggat cccaggggtg 180
cagcagctgc tccaggactt cttcaacggc aaggagctgt gcaagaacat caatcctgat 240
gaggccgttg cctatggtgc tgccgtccag gccgctatcc tcagtgggtga gggcaacgag 300
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gctcctctgt gtgtcccca gatcacggtc tgcttcgaca tcgacgcaa cggcatcctg 600
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<210> 12096
 <211> 647
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-096-Q1-K6-A1

 <400> 12096

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gggcacaaca actacaacaa cttgtgctag caaaccttgc tgactactgt aagcaacagc 360
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 tggcagcatt gaactcttct gcttatttac agtagcaaca actactacca ttcagccagc 540
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<210> 12097

<211> 653

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-096-Q1-K6-A11

<400> 12097

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 caatgctcac aagctcctat agcttccctt ctcccccggt acctctcacc agcgggtgtct 180
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 cagcaacaac tactaccatt cagccagcta gctgggtgtga gccctgctac cttcttgaca 600
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<210> 12098

<211> 662

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-096-Q1-K6-A12

<400> 12098

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cagtatactc acaagctcct atagctgccc ttcttcccc atacctcca tcaatgaccg 180
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cattggtaca aaccatcagg gcacaacagc tgcaacaact cgtgctacca gtgatcagcc 360
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tgaaccctc tgcttatttc cagcagcaaa tactactacc atttgccag ctagctacaa 600
caagccccac ttcctttttg aaacaacaac aattgctttc gttctaccag cagtttgtgg 660
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<210> 12099

<211> 628

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-096-Q1-K6-A2

<400> 12099

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<210> 12100

<211> 248

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-K6-A3

<400> 12100

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<210> 12101

<211> 680

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-K6-A4

<400> 12101

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<210> 12102
<211> 639
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-096-Q1-K6-A6

<400> 12102

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ttcatctatc tcttagctag ctacttcatac attgtccata tgaccgattc tacgattgaa 240
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atatcctgtc gtggaccaa acaagtagga gtaagccccg ctggaataat tacatcacia 360
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aatgtgattt tagggaatat acaacccaat taaatgaggg gtcttttgag gggctctatg 480
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<210> 12103
<211> 653
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-096-Q1-K6-A7

<400> 12103

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<210> 12104
<211> 629
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-096-Q1-K6-A8
<400> 12104

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aactattacc attcagccag ctagctactg cctactctca tcaacaacaa cttcttccat 360
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tctaccagca gtttgcggt aacccgcaa ccctcttaca actacaacaa ttgttgccct 540
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gcctcttttt agattgctta ttagttgta 629

<210> 12105
<211> 661
<212> DNA

<213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-096-Q1-K6-A9
 <400> 12105

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ctcattatct cctttgtggt tctgtttgat ttatttttaa aatttcttta tcagtttggt 180
tagcatccac ttgcatccgc tcatagtttg attcatgttc gttggatggg cctcaaaatt 240
accagttgct tcgactacac tctctgaatt tcgcaaatac agataaaacc cgccacaaag 300
gaatagatag cacacanaaa aaatcacagt attatttagt catattggac acgaataagt 360
taaatttctt aaattttaga tccacatttt tttattttgg tctagactct caaaaatcc 420
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agtttctgca attttttgga cgaccgagag gtgctgccgt ttatgagtat ctttccagtg 540
gaaaagcagc atgccacaac aggatgggtca gagtttggac attgcatgaa gcacttgctg 600
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t 661

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<210> 12106
 <211> 552
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-096-Q1-K6-B1
 <400> 12106

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ccctgctgct tatttgcagc aacaactatt accattcagc cagctagcta ctgcctactc 180
tcagcaacaa caacttcttc catttaacca attggccgca ctgaaccccg ctgcttattt 240
gcagcagcaa atactactac catttagcca gctagctgca gcaaaccgtg ctttcttctt 300
gacacagcaa cagtgtgctg ctttctacca gcagtttgcg gtttaaccccg caacctctt 360

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acaactacaa caattgttgc cctttgtcca acttgctttg acagaccgag cggcctccta 420
ccaacaacac atcattgggtg gtgccctctt ttagattgct tattagttgt aattcaataa 480
taaagttttt tggatgatgt atgtggccaa ccagaaataa gaagttacat ttccagattt 540
taatgtgaaa aa 552

<210> 12107
<211> 664
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-096-Q1-K6-B10
<400> 12107

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atgcgttcat tattccacaa tgctcacttg ctcttagtgc cattatacca cagttcctcc 180
gaccagttac ttcaatgggc ttcgaaacacc tagctgtgca agcctacagg ctacaacaag 240
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atctaaccat acaaaccatc gcaacacaac agcaacaaca gttcctacca gactgagcc 360
aactagatgt ggtgaaccct gtcgcctact tgcaacagca ggtgcttgca tccaaccac 420
ttgctctggc aaacgtagct gcataccaac aacaacaaca attgcaacag tttctgccag 480
cgctcagtca actagccatg gtgaaccctg ccgcctacct acaacagcaa caactgcttt 540
catctagccc tctcgttgtg ggtaatgcac ctacatacct gcaacaacaa ttgctgcaac 600
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tgct 664

<210> 12108
<211> 601
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-096-Q1-K6-B11
<400> 12108

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agttaccttt tggtgcattt attggcacia aacatcaggg cacaacaact acaacaactt 120
 gtgctagcaa accttgctgc ctactctcag caacagcagt ttcttccatt caaccaacta 180
 ggttcattga actctgcttc ttatttgcaa caacaacaac taccattcag ccagctacct 240
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 tatttacagc agcaacaact actaccattc agccagctag ctgggtgtgag ccctgctacc 360
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 ctcttacaac tgcaacaatt gctgccattc aaccaacttg ctttgacaaa cccagcagtg 480
 ttctaccaac aacccatcat tggtgggtgcc ctctttttaga tttcttatga gttatagttc 540
 aataataaag ttttttatct gatgtttgtg gcttcccaga aataagaaag tacatttcta 600
 g 601

<210> 12109

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-K6-B2

<400> 12109

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 aagacgtcca cccgccgccc ccatgaagcg caatccccgc gtcacgagct ctcgccggaa 120
 gtgccgcaag gcgcacttca cggccccgtc ctccgtccga cgagttctca tgtccaccgg 180
 gctgtcgacg gagctccgac acaagtacaa cgtgcgctcc atcccgatcc gcaaggacga 240
 caaggtgcag gtcgtgcgcg gcacctacaa gggccgagag gggaagggtg tgcaggtgta 300
 ccagacagcg atggatcatt cacgtcgagc ggatcaccca aaaagaaggt gaacatctac 360
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<210> 12110

<211> 663

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-K6-B3

<400> 12110

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 aagggaaaac ataacattcg attctctcaa ctaccatctg atactggtag ccagaatggt 180
 gacagcggag gtataaagtt tagatccaag tacatgtcat ctgaagagat cgaatcaatc 240
 ttaagaatgc agcattctgc aagccacagc agcgatcctt atattgttga ttactatcat 300
 caagcttgta tggcaaaaag gggtyccact tctaagcaa agaccaatctt ctccccaaca 360
 tcaatgaaag atgtaccatc caagtctcga tccagcagtg atcagcacac atatcttcag 420
 gttgatgctc ttggaagagt atctttttct tccatacggg ggcctcgggc tcttcttgaa 480
 gtcgaccatc cttcatctgc tgatggctct catgatcaga agtccactgt gaggccctg 540
 gagaaagaac caatgcttgc agcaagagtc actgttgaa agccctatg ccttgttctt 600
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 ctg 663

<210> 12111
 <211> 709
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-096-Q1-K6-B8

 <400> 12111

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 tttctgcaag tgctgctacc gcaaccattt tcccacaatg ctcacaagct cctatagctt 180
 cctttcttcc cccatacctc tcaccagcgg tgtcttcagt atgtgaaaac ccaattcttc 240
 aacctacag gatccaacag gcaatcgag caggcatctt acctttatca cccttgttcc 300
 tccaacaacc gtcagcccta ttacagcagt tacctttggt gcatttggtg gcacaaaaca 360
 tcaaggcaca acaactacaa caacttgctg taggaaacct tgctgcctac tctcagcaac 420
 agcagtttct tccattcaac caactggctg cattgaactc tgctgcttat ttgcaacaac 480
 aactaccatt cagtcagcta gctgctgcct acccccagca atttcttcca ttcaaccaac 540

tggcagcatt gaactctgct gcttatattac aacagcaaca gctaccacca ttcagccagc 600
 tagctgatgt gagccctggt gccttcttga cacaacaaca gttggtgccg ttctacctgc 660
 acgctgcgcc taaacgctgc accctcttac aactgcacaa ttgctgcca 709

<210> 12112
 <211> 652
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-096-Q1-K6-C1
 <400> 12112

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 tcgacctctg ggaccctttt gagggcttcc ccttcggctc cggcagcagc agcagtctct 180
 tccccctggt cccgcggacc agctcggaga ccgcggcctt cgctggcgcg cggatcgact 240
 ggaaggagac tccagaggcg cacgtgttca aggcagacgt accggggctg aagaaggagg 300
 aggtcaaggt ggaggtcgag gacggcaacg tccttcagat cagcggcgag cgcaacaagg 360
 agcaggagga gaagacggac acctggcacc gtgtggagcg gagcagcggg agattcctgc 420
 gcaggttccg actgcccagag aacgccaaga cggagcagat cagggccgcc atggagaacg 480
 gcgtgcttac agtcactgtg cccaaggagg acgccaagaa gcctgaagtg aagtccattc 540
 agatctccgg ctagacctcg gtctgcggtc gtcgtacctg cgtggtttga ggaacggcag 600
 ttgcctcgg tcgttctgtg aaataaaatg ggttacaaga attatggcgt tt 652

<210> 12113
 <211> 652
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-096-Q1-K6-C11
 <400> 12113

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 ctcccttct tccccgtac ctctcaccag cggtgtctac ggtatgtgaa aaccaattc 180

ttcaacccta caggatccaa caggcaatca cagctggcat cttaccttta tcacccttgt 240
 tctccaaca atcatcagcc ctattacatc agttaccttt ggtgcattta ttggcacaaa 300
 acatcagggc acaacaacta caacaacttg tgctagcaaa ccttgctgcc tactctcagc 360
 aacagcagtt tcttcattc aaccaactag ctgcattgaa ctctgcttct tatttgcaac 420
 aacaacaact accattcagc cagctacctg ctgcctaccc ccagcaattt cttccattca 480
 accaactggc agcattgaac tctcctgctt atttacagca gcaacaacta ctaccattca 540
 gccagctagc tgggtgtgagc cctgctacct tcttgatata accacagttg ttgccgttct 600
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<210> 12114
 <211> 656
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-096-Q1-K6-C12

 <400> 12114

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 gcagcaacaa gcaactgagc acctagccgt ggtgaaccct atcgccact tgcaacaaca 180
 gctgcttgca tccaaccac ttgctttggc aaacgtagct gcataccaac aacaacaaca 240
 gttgcaacag tttctaccag cgctcagtca actagccatg gtgaacccta tcgcctacct 300
 acaacagcaa caacttcttt catctagccc gctcgctatg ggcaatgcac ctacatacct 360
 gcaacaacag ttgttgcaac aacagttgct gcaacaaatt gtaccagctc ttactcagct 420
 agctgtggca aaccctgctg cctacttgca acaactactt ccattcaacc aactgactgt 480
 gtcgaactct gctgcgtacc tacaacagcg acaacagtta cttaatccac tagcggtggc 540
 taaccatttg gtcgctgctt tcttacagca gcaacaattg ctgccatata accagttctc 600
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<210> 12115
 <211> 657
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-096-Q1-K6-C2

<400> 12115

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caagctccta tagcttcctt tcttcccccg tacctctcac cagcgggtgc ttcggtatgt 180
gaaaacccaa ttcttcaacc ctacaggatc caacaggcaa tcacagctgg catcttacct 240
ttatcacctt tggttctcca acaatcatca gccctattac atcagttacc ttgggtgcat 300
ttattggcac aaaacatnag ggcacaacaa ctacaacaac ttgtgctagc aaactttgct 360
gcctactctc agcaacagca gtttcttcca ttcaaccaac tagctgcatt gaactctgct 420
tnttatttgc aacaacaaca actaccattc agccagctac ctgctgccta cccccagcaa 480
tttctttcat tcaaccaact ggcagcattg aactctctg cttatttaca gcagcaacaa 540
ctactaccat tcagccagct agctgggtgtg agccctgcta acttcttgaa caaccacagt 600
tgttgcegtt ctaccagcac gctgcgccta acgctggcac cctcttataa ctgcaac 657

<210> 12116

<211> 630

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-096-Q1-K6-C3

<400> 12116

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cccaaggagt gaaaatttag aaaacccaaa tctctatcac tatgcacttt tctctgataa 180
tgttttggca gcctctgttg ttgtgaactc aaccataatg aatgctaagg aaccagagaa 240
acatgttttc catcttgtga ctgacaagtt aaactttgga gccatgaaca tgtggtttct 300
gctgaacca cctggcaagg ccaccatcca tgttgagaat gtggacgaat ttaagtgggt 360
gaactcatca tactgtcctg tgttgaggca acttgagtct gctgccatga aagagtacta 420
tttcaaagct gatcgtecca ccactctctc agcaggttct tcgaacctaa agtatcgga 480

ccccaagtac ctctctatgc tgaaccactt gaggttctat ctcccagagg tctatccaaa 540
 gttggataag atactcttcc tcgacgatga catagtgtg cagaaagatt taacagggct 600
 gtgggatggt gatcttaatg gaaagtcaat 630

<210> 12117
 <211> 464
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-096-Q1-K6-C4
 <400> 12117

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 agctctaact cagctagctg tggcaaacc tgttgacctac ttgcaacagc tgcttccatt 180
 caaccaacta actatgtcga actctgttgc gtacctacaa cagcgacaac agttacttaa 240
 tccattggca gtggctaacc cattggctgc tgccttcccta cagcagcaac aattgctgcc 300
 atacaaccgg ttctctttga tgaatcctgt cttgtcgagg cagcaaccga tcgttggagg 360
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 gtttctctaga aataatcaat atattggttg agatttatct cgaa 464

<210> 12118
 <211> 660
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-096-Q1-K6-C5
 <400> 12118

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 ttccacagtt cctcccacca gttacttcaa tgggcttoga acatccagcc gtgcaagcct 180
 acaggctaca actagcgctt gcggcgagcg ccttacaaca accaattgcc caattgcaac 240
 aacaatcctt ggcacatcta accctacaaa ccattgcaac gcaacaacaa caacaacaac 300

agttttctgcc atcactgagc cacctagccg tgggtgaaccc tgtcacctac ttgcaacagc 360
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 agctgcaaca gtttatgcc a gtgctcagtc aactagccat ggtgaaccct gccgtctacc 480
 tacaactact ttcacttagc ccgctcgcgg tgggcaatgc acctacgtac ctacaacaac 540
 agttgctgca acaaattgta ccagctctga ctcagctagc tgtggcaaac cctgctgcct 600
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<210> 12119

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-K6-C6

<400> 12119

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 cctgatttat ttacagcagc aacaactact accattcagc cagctagctg gtgtgagccc 180
 tgctaccttc ttgacacaac cacaattggt gccgttctac cagcacgctg cgcctaacgc 240
 tggcacccctc ttacaactgc aacaattgct gccattcaac caacttgctt tgacaaaccc 300
 aacagcattc taccaacaac ccattcattgg tgggtgccctc ttttagattt cttatgagtt 360
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<210> 12120

<211> 592

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-096-Q1-K6-C7

<400> 12120

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 cataacaaat ggggtatacga taccacccaa tttgacaaca tattgaagaa actgaaagtg 180
 caatcagcta atcctgttca agaagaggtt gcagctgtag aaagtgattc acctgacatc 240

acacccaaga aagacaaatc agcaaaacat gaagttacta aagttactcg acctcaagga 300
agatacaaga aaagagagag ggggaaaagt gtgaactctt attcagcaac agatcttcaa 360
ggcatactcg tacgcaaaaa tgaagataat tccaaagtgg atcagaaaact tgaaccgaca 420
tgcttgatg aacctgatcc gatcatctgt ttggatgcag tatcccaagc tgatgatgtg 480
aactggtggg ggcacaagtt tggattttta tcaggagggt ttctaggagc aaaatcccgt 540
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<210> 12121

<211> 659

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-K6-C8

<400> 12121

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attattccac aatgctcact tgctccgagt gccattattc cacagtccct ccctccagtt 180
acttcaatgg gcttcgaaca cccagctgtg caagcctata ggctacaaca agcgcttgcg 240
gcgagcgtct tagaacaacc aattgcccac ttacaacaac aatccttggc acatctaacc 300
atacaaacca tcgcaacgca gcagcaacaa gcaactgagc acctagccgt ggtgaaccct 360
atcgccctact tgcaacaaca gctgcttgca tccaaccac ttgctttggc aaacgtagct 420
gcataccaac aacaacaaca gttgcaacag tttctaccag cgctcagtca actagccatg 480
gtgaacccta tcgcctacct acaacagcaa caacttcttt catctagccc gctcgctatg 540
ggcaatgcac ctacatacct gcaacaacag ttgttgcaac aacagttgct gcaacaaatt 600
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<210> 12122

<211> 595

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-K6-D1

<400> 12122

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acctttctcc ctactctcag caacaacaat ttcttccatt caaccaactg tctacactga 180
accctgctgc ttatttgcag caacaactat taccatttag ccagctagct actgcctact 240
ctcagcaaca acaacttctt ccattttaacc aattggccgc actgaacccc gctgcttatt 300
tgcagcagca aatactacta ccatttagcc agctagctgc agcaaaccgt gctttcttct 360
tgacacagca acagttgctg cctttctacc agcagtttgc gggtaacccc ggaacccctgt 420
tacaactaca acaattgttg ccctttgtcc aacttgcttt gacagaccca gcggccttct 480
accaacaaca catcattggt ggtgccctct tttagattgc ttattagttg taattcaata 540
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<210> 12123
<211> 652
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-096-Q1-K6-D10
<400> 12123

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gcaaaaacttg ctcaaaattt cacttttctt gaaccaaagt gggctagata tttgaaactg 180
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gaacctgatg acaagactaa ggaacccatt gagaaaattt atttgaaaga tcctgctgga 360
ggaaaagaat tctcacagga aacccttgat gaagatgaat ttgaactaga agatgataaa 420
ccaaacggtg attcattgaa gaatggtgct aatgatccag tttcagaggc aaggacactt 480
caggctggca ggattcctgg agatacagtt ctttaaggtgc taatgcagaa agttcaatct 540
cttgatgtga gcttctctgt cttggagagg tacctagtgg agttgaacag cagatatggg 600
caaatattta aggatttcga tgccgatatt gatagcaaag atgtcttggt ag 652

<210> 12124
 <211> 652
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-096-Q1-K6-D11

 <400> 12124

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<210> 12125
 <211> 650
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-096-Q1-K6-D2

 <400> 12125

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gtcacaagc tcctatagct tcccttcttc ccccatacct tccatcaatt atagcttcaa 180
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tacctttatc gcccttggtg tttcaacaat cgccagccct atctttggtg cagtcattgg 300
tacaaaccat cagggcacia cagctgcagc aactcgtgct acctctgac aaccaagtag 360
  
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ctctggcaaa ctttctccc tactctcagc aacaacaatt tcttccattc aaccaactgt 420
ctacactgaa ccctgctgct tatttgcagc aacaactatt accatttagc cagctagcta 480
ctgcctactc tcagcaacaa caacttcttc catttaacca attggccgca ctgaaccccg 540
ctgcttattt gcagcagcaa atactactac catttagcca gctagctgca gcaaaccgtg 600
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<210> 12126

<211> 133

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-K6-D3

<400> 12126

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<210> 12127

<211> 90

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-096-Q1-K6-D4

<400> 12127

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<210> 12128

<211> 634

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-K6-D6

<400> 12128

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 ccaatttgaa gttgaactac ttactggatt gaggatcacc tccgaagaag atgggtttgac 180
 agcttgtaat accctccaca gtgccggacc acagaaggtg gttataacta gtgctcttat 240
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 ggcagtttcc agtttgcagg cacttctgaa aagaactgtg gaagactata aaatggcccg 480
 cttcgaccca tcgaccagca gcttagagat caggttgatc caaagccagg acgagatccg 540
 aaacccaact gttacatgca aggctgtgaa gtatggaagc tgaatccatt agtaccacac 600
 tgacaaaggt gccacaata atgagcagtg cctg 634

<210> 12129
 <211> 472
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-096-Q1-K6-D7

 <400> 12129

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 atgcacgtgg cggagtcggg ccccgacggc gactgcgcgc ccgcggtggg gttcctgcac 180
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 gcgtcctact ccgccttcca cgtcgtcggc gacgtcgtcg ccctgctcga cgcgctcggc 360
 atccacaaca aggtgttcgt ggtgggtcac gactggggcg ccatcatcgc gtggtacctt 420
 tgccgtgttc ggccgggtccg ggtggcggcg cttgttaaca ccagcgtggc ct 472

<210> 12130
 <211> 662
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-096-Q1-K6-D8

<400> 12130

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aaaagcttga tgagtacctt ctactcgca gctacatcac tggctaccaa gttccaagg 180
atgacttggc tgtctacact tcgttttcgt ctgctccctc gtccaagtat atcaacgtag 240
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acatggccaa gctcgaggaa gctgttagga gtgtccagat ggaaggggtg ctctggggcg 600
catccaagct tgtcccagtt ggatatggtg tcaagaagct gcaaatactg atgaccatcg 660
tc 662

<210> 12131

<211> 655

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-096-Q1-K6-D9

<400> 12131

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ttttccctcc ttgccctcct tgctctttca gcaagcgctg ctacctctac tattattcca 120
caatgctcac aacaatacct ctctccggtg acagccgctg gatttcaaca cccaactata 180
caatcctaca tgctacatga ggccatcgta gcaagcatct tacggtcatt agcattaacc 240
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atcgcgacac aacaactaca acaacagttg ctaccaacaa tcaatcaagt agttgcagcg 360
aacottgctg cttatctcca gcaacaacaa tttcttccat tcaatcaact agctgggggtg 420
aaccctgctg tctacttgca ggcacaacaa ctactaccat ttaaccaact tgtcgggagc 480

cctgatgcct tcttactgca acaacagctt ctgccattcc atctgcaagc tgtggaaaaa 540
 ttgcttcttt cttgcgacaa caacaattgt tgccatttta cccacagggt gtgggaaaca 600
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<210> 12132

<211> 646

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 12132

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 attcttcaac cctacaggat ccaacaggca atcacagctg gcatcttacc tttatcacc 180
 ttgttctctc aacaatcatt agccctatta catcagttac ctttgggtgca tttattggca 240
 caaaacatca gggcacaaca actacaacaa cttgtgctag caaaccttgc tgcctactct 300
 cagcaacagc agtttcttcc attcaaccaa ctagctgcat tgaactctgc ttcttatttg 360
 caacaacaac aactaccatt cagccagcta cctgctgcct acccccagca atttcttcca 420
 ttcaaccaac tggcagcatt gaactctcct gcttatttac agcagcaaca actactacca 480
 ttcagccagc tagctgggtg gagccctgct accttcttga tacaaccaca gttgttgccg 540
 ttctaccagc acgctgcgcc taacgctggc accctcttac aactgcaaca attgctgcc 600
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<210> 12133

<211> 363

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-096-Q1-K6-E10

<400> 12133

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gctggcagca tcgttgctac cattgcnntt gttgcttggtg cttcggctag cccittgact 180
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<210> 12134

<211> 663

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-096-Q1-K6-E11

<400> 12134

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 acggctgtca gaaaaaaact ttcgtgtcc attgctgccg gcatcaagat gcaagatttg 180
 caggattggt ctggtcaacg acgtattatt agagtaatgc ccaacacccc ttcagctgtt 240
 ggacaagctg catcagtcac gtgtttggga gagatggcta ctcaggatga tgaaaaccgt 300
 gtaagaaaac tgttcagtcg cattggaaaa gtctggacag ctgaagagaa atatattgat 360
 gctgtaactg gtctgagtggt tagtggcccc gcctatatct tcctagcaat agaggccatg 420
 gctgatgggtg gagttgctgc tgggcttcct cgggaccttg cccttgggtct tgcattctcaa 480
 acagttcttg gtgctgcaac tatggtgagc cagacaggca aacatccagg gcaactgaaa 540
 gatcagggtta cttctccagc aggtactacc attgccggga ttcagtagct cgaaagggcg 600
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 cat 663

<210> 12135

<211> 638

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-K6-E2

<400> 12135

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<210> 12136

<211> 613

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-K6-E3

<400> 12136

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tcaacaacaa agccatgagc agcaacatca tccacaacaa catcatccac aaaaacaaca 180
acatcaacca ccaccacaac atcaccagca gcagcaacac caacaacaac aagttcacat 240
gcaaccacaa aaacatcagc aacaacaaga agttcatggt caacaacaac aacaacaacc 300
gcagcaccaa caacaacaac aacaacaaca gcaccaacaa caacatcaat gtgaaggcca 360
acaacaacat caccaacaat cacaaggcca tgtgcaacaa cacgaacaga gccatgagca 420
acaccaagga cagagccatg agcaacaaca tcaacaacaa ttgcagggtc atgacaagca 480
gcaacaacca caacagcctg agcaatatca gcagggtccag taaaaatata acagcaacaa 540
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tcaaactctaa aaa 613

<210> 12137
 <211> 645
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 12137

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gtgtcctagt ctatgatgtt aattctatga aatcatttga caacctgaac aactggcgag 180
aagagtttct aattcaggct agcccatcag atcctgataa tttccctttt gttctattgg 240
gtaacaaagt tgatgtagat ggtggcaaca gcgcgtggt atctgagaaa aaggcaaagc 300
atggtgtgct tccaaaggga acatcccgta ctttgagacg tctgctaagg acggaacgaa 360
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accaaacaat accttagcat tgctgggttt ccgtgggttat ctacgtatcc gtattccatt 600
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<210> 12138
 <211> 256
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-096-Q1-K6-E6

 <400> 12138

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ataaatttaa ctgcgaggct agctgctgaa catcgatctg ctagtattac tacggcgagg 180
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gttacttcta ccgatt 256
  
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<210> 12139

<211> 633

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-K6-E7

<400> 12139

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cccgtgctt atttgcagca gcaaatacta ctaccattta gccagctagc tgcagcaaac 600
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<210> 12140

<211> 624

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-096-Q1-K6-E8

<400> 12140

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acttcggcgc gctacgggcc ggcgacgacg ttcacgggcc atgtcaggaa gtggcgcaag 180
gagtgggtac cagtggctgc cgcgcgccgc gccgcgcgcg ccaacgcaa caccagcgcc 240
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cagcagcagc aggctgagac ggccacgaga cgccggcggt atgtgccggt ttctttaatg 420
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ccatcttcga atgaaactga gccatcaaat ggaaagactg atatcaatga tacacctatg 540
gatgaatctc angcaacaga tgaggatggt cgagattctg gtaaaaacgg cggtggaaca 600
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<210> 12141

<211> 307

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-096-Q1-K6-E9

<400> 12141

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ggaatgcaaa cttgctcaaa tttgatgttg ttgtctttgt gggctgnttt ttgggggggg 120
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gctgtggagg gtgcttgga acttgattca gtggagatgt gaatcggaac ctggtggcgg 240
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<210> 12142

<211> 668

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-096-Q1-K6-F1

<400> 12142

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<210> 12143
<211> 159
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-096-Q1-K6-F10
<400> 12143

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<210> 12144
<211> 652
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-096-Q1-K6-F12
<400> 12144

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tgttgatcatg atcttaggca gattgagcca caatacatc accaagcaat ctacaacatg 420
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 ggcttgtagc actcatacta ccaaaataat ccatgcagca gcaatgacat tagtgggtgtt 600
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<210> 12145
 <211> 331
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-096-Q1-K6-F2
 <400> 12145

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa ataaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataaaa aaaaaaaaaa 240
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<210> 12146
 <211> 662
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-096-Q1-K6-F4
 <400> 12146

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 atgtcagttt ctccattgct gcaatgtacg gcatcgcagt tgccgctctt ggtatgctga 180
 gcacaattgc aactgggtctt gctattgatg ctatgggtcc catcagtgac aatgctgggtg 240
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tgtctctggc gctttttggt gccttcgtca gcagagctgg agtgaagggt gtcgatgtcc 420
 tctcccccaa ggttttcatt ggtttgattg ttggagccat gcttccctat tggttctctg 480
 ccatgaccat gaagagtgtt ggaagtgccg ccctaaagat ggtggaggag gtccgcagac 540
 agttcaacac cattccttgg ttgatggagg gaactgcaa acctgactat gcaacctgtg 600
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 ct 662

<210> 12147
 <211> 471
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-096-Q1-K6-F7
 <400> 12147

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 cctagtgccca ttattccaca gttcctccca ccagttactt caatgggctt cgaacatcca 180
 gccgtgcaag cctacaggct acaactagcg cttgcggoga gcgccttaca acaaccaatt 240
 gcccaattgc aacaacaatc cttggcacat ctaaccocgc aaccctctta caactacaac 300
 aattgttgcc ctttgtccaa cttgctttga caaaccocgc agcctcctac caacaacaca 360
 tcattgggtg tgccctcttt tagattgctt attagttgta attcaataat aaagtttttt 420
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<210> 12148
 <211> 475
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 12148

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 gaaaagagca agggggggcg caaaggcttg ctggcttgct gcctacctag ctcgtcgggg 120

ccctatgaga gatccagcac caccgggggc tgggcaactc caaggttgtc aaggtgcaga 180
gcgaggaggc gtgggatctg ttcaccgatc aagcgagcaa cgaaggccgg cccgttggtg 240
cccatttcgg ggcgtgatgg tgcgtgacgt ccctgtccat gaactacaag ttagaggagc 300
tggcgcagac ccaccccgag gtcttggtcc tctacgtgga cgtcaacaat gtccagagtg 360
tttcatccag gtacggagtg aaggccatgc cgacgttctt tctcatcaag agcaaggagg 420
tgggtggggaa gatcgtctgt gcgaaccag acgaggtgaa aaagctggtg gaatg 475

<210> 12149
<211> 661
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-096-Q1-K6-G1
<400> 12149

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atagaaatgg aagagaaaag aagtgcgagg atagctaggc aggaggacga agagcaactt 120
cgcttgattg aggaagaaga gagacgcgag caggagagga agaggcgaaa gatggcacga 180
ggccgatagt ccaacacgcg tcatatttgg gtgttataat tgcacagacc tgattgcctg 240
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tggattatat ggcgggcaaat caaggaaaac ggtaggtggg caacgctggg cacctgtaac 360
aagcagaatg ttaggcgcag tggtttagtt gacgaagctg acatagaccc atatataagc 420
tctcatcaga ttgtttggat cacacaaggc tcccaacggt gcagcgcttc atcagattat 480
tctaaattct agccacatgc tgattctttc tgttaagcct atataaggat gcctaattcca 540
agtagctcct ttgttcattt ttgtttgggt gtagtggtgt actccctccc atttttttat 600
ctgacggttg ttagttttaa tatgaactgt ccggcgccaa ataaaaaata agagtagcaa 660
c 661

<210> 12150
<211> 665
<212> DNA
<213> Zea mays
<223> unsure at all n locations

<223> Clone ID: LIB3061-096-Q1-K6-G10

<400> 12150

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caatgtcac aagctcctat agcttccctt cttcccccat acctctcacc agcgggtgtct 180
tcaatgtgtg aaacccaat tgttcaacc tacaggatcc aacaggcaat cgcaacaggc 240
atcttaccat tatcaccctt gtctctccaa caaccgtcag ccctattaca gcagttacct 300
ttggtccatt tgggtggcaca aaacatcagg gcacaacaac tacaacaact tgtgctagga 360
aaccttgctg catactctca gcaacatcag tttcttccat tcaaccaact ggctgcattg 420
aactctgctg cttatttgca acaacaatta ccattcagcc agctagttgc tgcctacccc 480
cagcaatttc ttccattcaa ccaactagca gcattgaact ctgctgctta tttacagcag 540
caacaactac taccattcag ccagctagct gatgtgagcc ctgctgcctt cttgacacaa 600
caacagttgt tgccgttcta cctgcacgct atgcctaacg ctggcacctt cttacaactg 660
caaca 665

<210> 12151

<211> 655

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-096-Q1-K6-G11

<400> 12151

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aatgttcaca agctcctata gcttcccttc tttccccata ctttccatca attatagctt 180
caatatgtga aaaccagct cttcaaccat ataggcttca acaagcaatc gcagcaagca 240
acataccttt atcgcccttg ttgtttcaac aatcgccagc cctatctttg gtgcagtcac 300
tgggtacaaac catcagggca caacagctgc agcaactcgt gctacctctg atcaaccaag 360
tagctctggc aaacctttct ccctactctc agcaacaaca atttcttcca ttcaaccaac 420
tgtctacact gaacctgct gcttatttgc agcaacaact attaccattt agccagctag 480

ctactgccta ctctcagcaa caacaacttc ttccatttaa ccaattggcc gcactgaacc 540
ccgctgctta tttgcagcag caaatactac taccatttag ccagctagct gcagcaaacc 600
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<210> 12152

<211> 652

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-096-Q1-K6-G12

<400> 12152

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agcgccgctt aaagagggcg atgaagatag atgagggaga ggacgacttt gaagctgatt 120
accaagcatt ctctaagaag tacgatgaga aggatgagtg ccactataag ttcattggctt 180
tattaccatt caagaatggt cttcctaattg tctcaccgcc aacaaaagag aaagttggac 240
ttcattttgc catgaaagat gttgtgatta gtcaaaaacc aaccaccacc aatgaaggta 300
tcattgtaag gccgaagtgc aagcgaaaga ccccatatag gggcatccgc cgacgccctt 360
ggggaaaatg ggctgctgaa atccgcgac ctaaaaaggg tgttcgtgtt tggttaggca 420
cgtataaaac accagaagat gcagctagag catatgacgc tgaggcccg c aagattaggg 480
gcaataaagc aaaggtgaat ttccctaattg aaccaccaa catggtgagc aatgcaccaa 540
aactaattgt tactgcaatg actacaatgg ctatcccagc agacaagttg aatgccaatg 600
aattgatgtg ccataaaaac tactcaaattg aggattgttt ctcaatggtg aa 652

<210> 12153

<211> 643

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-096-Q1-K6-G3

<400> 12153

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ttgtgaacct agtatggcaa acgcgccgag gatcctggcc ctcggcctgc tgctagcgct 120

cctgtgcgct gccgccggcc cggccgcgc gcagaactgc ggctgccagc ctaacttctg 180
ctgcagcaag ttcggtact gcggcacgac cgacgactac tgccggcgac ggtgccagtc 240
gggcccgtgc cgctcgggcg gcggcggcgg cggcggcgga ggccggaggca gtggcgggtgc 300
gaacgtggct aacgtggtca gcgacgcgtt cttcaacggc atcaagaacc aggccgggag 360
cgggtgcgag ggcaagaact tctacaccgc gagcgcgttc ctgagcgccg tcaacaagta 420
cccgggcttc gcccatggcg ggacggagggt ggagggcaag cgcgagatcg ccgccttctt 480
cgcgcacgtc acgcacgaga ccgnacattt ctgctacatc agcgagatca acaagagcaa 540
cgcctactgc gacgcaagca acaggcagtg gccgtgcgcg gcggggcaga aatactacgg 600
gcgcggcccc ctgcagatct tgtggaacta caactaccgg ccc 643

<210> 12154
<211> 611
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-096-Q1-K6-G4
<400> 12154

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ctccatccct ggtgcggcgg cgcagcctg caggtgttga atgctgattt gttgtggctg 180
attaatcggg ttgatcgtcg attaatcgtg attagtcggc tgatcgccct tctggcgatc 240
agaaacgata aggcaatctg aaaacattgg ccgccaacc tccagagcga ctcccgcgag 300
ccgtgaccac catagctaaa tcaacgcacc agaagctttc acggagctgt ctcgccacg 360
agtgttccag ctgactccta ttccctgcgt caatggcgag ctctggcaat gaagggcgtg 420
tggtggtgga ccttggtcc gcggcggagt cgggtggtgc tgacgaggag gcgcacgcca 480
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attgtggtga g 611

<210> 12155
<211> 661

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-096-Q1-K6-G5

<400> 12155

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tgctcgcaag ctctatagc ttcccttctt ccccgctacc tctcaccagc ggtgtcttcg 180
gtatgtgaaa acccaattct tcaaccctac aggatccaac aggcaatcgc agctggcatc 240
ttacctttat cacccttggt cctccaacaa tcatcagccc tattacaaca gttacctttg 300
gtgcatttat tggcacaaaa catcagggca caacaactac aacaacttgt gctagcaaac 360
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tctgcttctt atttgcaaca acaacaacta ccattcagcc agctacctgc tgcctacccc 480
cagcaatttc ttccattcaa ccaactagca gcattgaact ctctgctta ttacagcag 540
caacaactac taccattcag ccagctagct ggtgtgagcc ctgctacctt cttgacacaa 600
ccacagttgt tgccgttcta ccagcacgtt ggcctaacg ctggcaccct cttacaactg 660
c 661

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<210> 12156
 <211> 634
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-096-Q1-K6-G6

<400> 12156

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tgctcacaag ctctatagc ttcccttctt ccccgatacc ttccatcaat tatagcttca 180
atatgtgaaa acccagctct tcaaccatat aggtttcaac aagcaatcgc agcaagcaac 240
atacctttat cgccttggt gtttcaacaa tcgccagccc tatctttggg gcagtcattg 300
gtacaaacca tcagggcaca acagctgcag caactcgtgc tacctctgat caaccaagta 360

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gctctggcaa acctttctcc ctactctcag caacaacaat ttcttccatt caaccaactg 420
tctacactga accctgctgc ttatttgcag caacaactat taccatttag ccagctagct 480
actgcctact ctcagcaaca acaacttctt ccatttaacc aattggccgc actgaacccc 540
gctgcttatt tgcagcagca aatactacta ccatttagcc agctagctgc agcaaaccgt 600
gcttccttct tgacacagca acagttgctg cctt 634

<210> 12157
<211> 660
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-096-Q1-K6-G7
<400> 12157

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tcctatagct tccttcttc ccccgtagct ctcaccagcg gtgtcttcgg tatgtgaaaa 180
cccaattctt caaccctaca ggatccaaca ggcaatcgca gctggcatct tacctttatc 240
acccttggtc ctccaacaat catcagccct attacaacag ttacctttgg tgcatttatt 300
ggcacaaaac atcagggcac aacaactaca acaacttggt ctagcaaacc ttgctgccta 360
ctctcagcaa cagcagtttc ttccattcaa ccaactaggt tcattgaact ctgcttctta 420
tttgcaacaa caacaactac cattcagcca gctacctgct gcctaccccc agcaatttct 480
tcattcaac caactagcag cattgaactc tctgcttat ttacagcagc aacaactact 540
accattcagc cagctagnct ggtgtgagcc ctgctacctt cttgaccaac cacagttgtt 600
gccgttctcc agcacgttgc gcctaaacgc tgcaccctct tacactgcaa cattgctgcc 660

<210> 12158
<211> 650
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-096-Q1-K6-G8
<400> 12158

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 cttatgctcc ttgggtcttc tgcaagtgt gccaccgcaa ccattttccc acaatgtctca 120
 caagctccta tagcttcctt tcttccccca tacctctcac cagcgggtgtc ttcagtatgt 180
 gaaaacccaa ttcttcaacc ctacaggatc caacaggcaa tcgcagcagg catcttacct 240
 ttatcacctt tgttcttcca acaaccgtca gccctattac agcagttacc tttgggtgcat 300
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 gcttatttgc aacaacaact accattcagt cagctagctg ctgcctaccc ccagcaattt 480
 cttccattca accaactggc agcattgaac tctgctgctt atttacaaca gcaacagcta 540
 ccaccattca gccagctagc tgatgtgagc cctgttgctt tcttgaccaa caacagttgt 600
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<210> 12159
 <211> 607
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-096-Q1-K6-G9

 <400> 12159

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 caacttgtgc tagcaaacct tgctgcctac tctcagcaac aacagtttct tccattcaac 180
 caactagctg cattgaactc tgcttcttat ttgcaacaac aacaactacc attcagccag 240
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 acagcattct accaacaacc catcattggg ggtgccctct tttagatttc ttatgagtta 540
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tctngna

607

<210> 12160

<211> 466

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-K6-H1

<400> 12160

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acaacaacaa ttgcaacagt ttgtaccagc gctcagtcac cttagccatgg tgaaccctgc 180
cgtctacctt caacagcaac aactgatttg atctagccct gtgggtgtgg ttaatgcacc 240
tacatacctg caacaacagt tgctgtaaca gtattgtacc agctgtgact taactagctg 300
tggaataccc tgctgtctac ttgaaacagg tgggtgccatt caaccaactg actgggtaga 360
actgtgggtg gtgcctacaa cagcaacaac agttacttaa tgcactagcg gtggctgacc 420
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<210> 12161

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-K6-H10

<400> 12161

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atttaaccaa ttggccgcac tgaaccctct tgcttatttc cagcagcaaa tactactacc 120
atttggccag ctactacaa caagccccac ttcttttttg aaacaacaac aattgcttcc 180
gttctaccag cagtttgtgg ctaaccccg c aacctctta caactgcaac agttgctgcc 240
ctttgtccaa cttgctttga caaaccagc agccttctac caacaacaca tcattggcgg 300
tgccatcttt tagattgctt attagttgta attcaataat gaagtttttt ggctgatgta 360
tgtggcctcc tagaaataag aagttacatt tcc 393

<210> 12162

<211> 691
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-096-Q1-K6-H11

 <400> 12162

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 cgctagtggg caacaagaag ttccacacct gttccgcaga tggattactc cacaggaacc 180
 acccaggagt aatgtggtac ttactgttgg tgcactacac caggctgatt ctgctgcgct 240
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 tcagcattgg gggccccacc aggaattgta aatatggtgt agatcttgcc aggcagctca 360
 taacttctct gtataatgtg ctagatagct gtgggagtgt cagaatctca ttctctccga 420
 gaacaccatg gaagcagggt gctgatacta tatttaaga atttgctgga catcccaagg 480
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 cttttgtcat aacagcagac tcgataagta tgttaagtga ggcaggtagc acagggaaac 600
 ctgtttatgt tattgggacc gaacactgta aatggaagtt ttcggctttt cacaagactc 660
 tacgggagcg aggggttggt cggccgttca c 691

<210> 12163
 <211> 667
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-096-Q1-K6-H2

 <400> 12163

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 tectatagct tcccttcttc ccccgtaact ctcaccagcg gtgtcttcgg tatgtgaaaa 180
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 acccttggtc ctccaacaat catcagccct attacatcag ttacctttgg tgcatttatt 300
 ggcacaaaac atcagggcac aacaactaca acaacttggt ctagcaaacc ttgctgcta 360

ctctcagcaa cagcagtttc ttccattcaa ccaactagct gcattgaact ctgcttctta 420
 tttgcaacaa caacaactac cattcagcca gctacctgct gcctaccccc agcaatttct 480
 tccattcaac caactggcag cattgaactc tcttgcttat gtacagcagc aacaactact 540
 accattcagc cagctagctg gtgtgagccc tgctaccttc ttgatacaac cacagttgtt 600
 gccgttctac cagcacgctg cgcctaaacg ctgcaccctc ttacaactgc aacattgct 660
 gccattc 667

<210> 12164
 <211> 582
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-096-Q1-K6-H3
 <400> 12164

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 agcttccctt cttcccccat acctctcacc agcgggtgtct tcaatgtgtg aaaccccaat 180
 tgttcaaccc tacaggatcc aacaggcaat cgcaacaggc atcttaccat tatcaccctt 240
 gttcctccaa caaccgtcag ccctattaca gcagttacct ttgggtccatt tgggtggcaca 300
 aaacatcagg gcacaacaac tacaacaact tgtgctagca aaccttgctg catactctca 360
 gcaacatcag tttcttccat tcaaccaact ggctgcattg aactctgctg cttatttgca 420
 acaacaatta ccattcagcc agctagttgc tgctacccc cagcaatttc ttccattcaa 480
 ccaactagca gcattgaact ctgctgctta ttacagcag caacaactac taccattcag 540
 ccagctagct gatgtgagcc ctgctgcctt cttgacacaa ca 582

<210> 12165
 <211> 257
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-096-Q1-K6-H4
 <400> 12165

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cattcagcca gctagctact gcctactctc atcaacaaca acttctcccc attaaacaag 120
gtgaaagatt tccatcaaaa aaaaaaaaaa aaaaaaata aaaaaaaaaa aaaaaaaaaa 180
aaagagaaaag gatgaaaaaa tgggaaaatg gatgtggggg gtaggtgtgg ttgggtggtt 240
tttttggtgg ttttgtg 257

<210> 12166

<211> 640

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-096-Q1-K6-H5

<400> 12166

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atztatcatt ggatgagcag catgatagtc ccaaagaata taccaagaga catgaacctt 180
caagagaaaac tgataataat aaggggagggg aagatcacat ggcaggctgc tcccagcctg 240
ttggcaacat ggggatgtct caaggtgcag gcattgcatg taatggtgat aaaaatacgg 300
gtgcagcagc ttatttccag gataaagatg tctctgcac ttctgctatt gaaaatgtag 360
cactgaggca ctgcacagct tcatcgctca agttaaatgt acctccaatt gatgttgaca 420
aggtaagatg catagtaaga aatatcgatg gagattgggg tgatgagggt caaaaggaac 480
gtgatgagtg ctataagccc attcttgagg agcttaatcg cttttttcct aaccggagcg 540
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<210> 12167

<211> 646

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-096-Q1-K6-H6

<400> 12167

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 atgctcactt gtccttagtg ccattatacc acagttcctc cgaccagtta cttcaatggg 180
 cttcgaacac ctagctgtgc aagcctacag gctacaacaa gcgcttgagg cgagcgtctt 240
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 cgcaacacaa cagcaacaac agttcctacc agcactgagc caactagatg tggatgaaccc 360
 tgtcgcctac ttgcaacagc aggtgcttgc atccaacca cttgctctgg caaacgtagc 420
 tgcatacaca caacaacaac aattgcaaca gtttctgccg gcgctcagtc aactagccat 480
 ggtgaaccct gccgcctacc tacaacagca acaactgctt tcatctagcc ctctcgttgt 540
 gggtaatgca cctacatacc tgcaacaaca attgctgcaa cagattgtac cagctctgac 600
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<210> 12168
 <211> 670
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-096-Q1-K6-H7

 <400> 12168

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 atgntggaaa caaacacttt cagactagca tcgcacattt actgggcatt atgggccctt 180
 attcaggcaa aggtatcccc aattgacttt gactatcttg gatacttctt cttgcggtat 240
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 ttacactcca atctacctca acatatgtgg attggtggat tggggtcaat actagactac 600
 ccaaataaca gggaagtcgc atgaccgctc caggagaca cagggtggca aattctgtac 660

ttatatattat

670

<210> 12169
<211> 663
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-096-Q1-K6-H8

<400> 12169

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gagatccagc accaccgggg gctgggcaac tccaagggtg tcaagggtgca gagcgaggag 180
gcgtgggatc tggtcaccga tcaagcgagc aacgaaggcc ggcccgttgt tgcccatttc 240
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tcgtgtcttc cgaaactgct ccgcgagact gtgcgaccgt gagtgttctt tggtcagggt 600
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cgc 663

<210> 12170
<211> 649
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-K6-H9

<400> 12170

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tcattattcc acaatgtcga cttgtccaa gttccattat tacacagttc ctcccaccag 180

ttactttcaat gggcttcgaa caccagctg tgcaagccta taggctacaa caagcaattg 240
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 caatacaaac catcgcaacg caacagcaac aacaattcct accagcactg agccacctag 360
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 tggcaaacgt agttgcaaac cagccacaac aacagctgca acagtttctg ccagcgctca 480
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 gcccgctcgc tgtggccaat gcacctacat acctgcaaca acaattgttg caacagattg 600
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<210> 12171
 <211> 603
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-120-Q6-K6-A1
 <400> 12171

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 gacaaaaaag atgaaaatct caagagagac tattgatgcc agcgggagaa tctcaaacac 180
 agaggatatt ctgacaatac aagtaaaggc tggttggaag aagggaaaca ggattacatt 240
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 cctatcactg cacatcaact caataatcca tccaaagtac gaagaggtga tgcttgaga 480
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 tta 603

<210> 12172
 <211> 596
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-120-Q6-K6-A10

<400> 12172

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ctgctccttc taaggagcca aaggcaaagg atgtcaagaa ggaggctcca aaggaggccc 180
ccaagccaaa ggtggttgag gcaccagcag aagaggaagc accaaagcca aagccaaaga 240
atcctcttga cttgctgcca ccaagcaaga tggctccttga tgactggaag aggctatact 300
caaacacaaa gactaacttc cgggaggttg ccatcaaagg tttctgggac atgtacgacc 360
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cctttgggaa gatgctcgtg ataggctctg agccaccctt caagctgaag ggcctttggc 540
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<210> 12173

<211> 650

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-120-Q6-K6-A12

<400> 12173

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tctgcagtt acttcagaca cagtcagcta caaagtataa cccatctgcg gcacctaata 180
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cacaatacaa gagcagccca cctgcttcga gcctaccaca gccatcatca ctctctgngt 540
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ccctctgcgc cctacaactt tgggattgat gaagcttagg cacacaattc 650

<210> 12174

<211> 657

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-120-Q6-K6-A2

<400> 12174

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accagagtaa taatcgctcc ttgcgctgct tgggcttttt gggagcgcaa caaatgcgta 120

cattatacga cagtgcgtgac tcgctccaag ttccattatt acacaggccc taccaccagc 180

tacttcaatg ggcttagaac acccagctgg gcaagcctat aggctacaac aagcaattgc 240

ggcgagcggt ttacaacaac caatttccca gttgcaacaa caatccttgg cacatctaac 300

aatacaaacc atcgcaacgc aacagcaaca acaattccta ccagcactga gccacctagc 360

catgggtgaac cctgccgcct acttgcaaca gcagttgctt gcatacaacc cacttgctct 420

ggcaaacgta gttgcaaacc agccacaaca acagctgcaa cagtttctgc cagcgctcag 480

tcaactagcc atgggtgaacc ctgccgccta cctacaacag caacaactgc tttcatctag 540

cccgcctcgt gtggccaatg cacctacata cctgcaacaa caattgttgc aacagattgt 600

accagctctg actcagctag ttgtggcaaa ccctgctgcc tacttgcaac agctgct 657

<210> 12175

<211> 590

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-120-Q6-K6-A3

<400> 12175

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tggccagttc cacctgcgt cgatcatctc tgaaggtgta cgggcccgtg acatatgccc 180

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 tcagaaccaa gatgagatga ttaagtctgg taggctatca gagccgtaca aggggtattgt 480
 tgactgcttc aaacgtacca ttaaggatga aggtttctct tccttgtgga ggggtaacac 540
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<210> 12176

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-120-Q6-K6-A4

<400> 12176

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 tccattcaac caactaggtt cattgaactc tgcttcttat ttgcaacaac aacaactacc 180
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 attgaactct cctgcttatt tacagcagca acaactacta ccattcagcc agctagctgg 300
 tgtgagccct gctaccttct tgacacaacc acagttgttg ccgttctacc agcacgttgc 360
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<210> 12177

<211> 169

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-120-Q6-K6-A5

<400> 12177

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 atcacgttgg atgcaccaag ctttattcct gttatgcaac atgctcgaa 169

<210> 12178

<211> 296
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 12178

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ttagatttct tatgagttat agttcaataa taaagttttt tgtctgatgt ttgtggcttc 180
gcagaaataa gaaagtacat ttctnanttn aaaaaaaaaa aaaaaaaaaa aaaaaaccaa 240
aaaaaaaaaa agaaagaaaa tataaaaaaga aacaaaataa aaaaaaaaaa acaaaa 296

<210> 12179
<211> 662
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 12179

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cttcttcccc catacctctc accagcgatg tcttcagtat gtgaaaatcc aattcttcta 180
ccctacagga tccaacaggc aatcgagca ggcattctac ctttatcacc cttgttcttc 240
caacaatcat cagccctatt acagcagtta cctttgggtgc atttattggc acaaaacatc 300
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gtgctagcaa accttgctgc ctactctcag caacaacagt ttctgccatt caaccaacta 480
gctgcattga actctgctgc ttatttgag caacaacaac tactaccatt cagccagcta 540
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gcttatgtac aacaacaaca actactacca ttcagccagc tagctgctgt gagccctgct 660
gc 662

<210> 12180
 <211> 678
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-120-Q6-K6-A8

 <400> 12180

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ggcaaacatt gttgcctt 678
  
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<210> 12181
 <211> 658
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 12181

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aaaccaatt cttcaaccct acaggatcca acaggcaatc gcagcaggca tcttaccttt 240
  
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atcacccttg ttctccaac aaccgtcagc cctattacag cagttacctt tggcgcattt 300
gttggcacia aacatcaagg cacaacaact acaacaactt gtgctaggaa accttgctgc 360
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<210> 12182

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-120-Q6-K6-B1

<400> 12182

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<210> 12183

<211> 583

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-120-Q6-K6-B10

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<210> 12184
<211> 621
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-120-Q6-K6-B11
<400> 12184

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<210> 12185
<211> 664
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-120-Q6-K6-B12

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catt 664

<210> 12186
<211> 584
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-120-Q6-K6-B2

<400> 12186

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gctcatcatc gccgtcatca tcagcactgg gatcaacccc aaggccaagc cctactacct 480
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<210> . 12187

<211> 601

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-120-Q6-K6-B3

<400> 12187

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 attttccctc aatgctcaca agctcctata gcttcccttc tcccccata ccttccatca 180
 atgatagctt cagtatgtga aaaccagct cttcagccct ataggctcca acaagcaatc 240
 gcagcaagca acataccttt atcacccttg ttgtttcaac aatcgccagc cctatctttg 300
 gtgcagtcac tgggtacaaac catcagggca cagcagctgc agcaactcgt gctacctgtg 360
 atcaaccaag tagctctggc aaacctttct ccctactctc agcaacaaca atttcttcca 420
 ttcaaccaac tgtctacact gaacctgct gcttatttgc agcaacaact attaccattc 480
 agccagctag ctactgccta ctctcagcaa cacaacttct tccatttaac caattggccg 540
 cactgaacct cgctgcttat ttgcagcagc aaatactact accatttagc cagctagctg 600
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<210> 12188

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-120-Q6-K6-B4

<400> 12188

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 caacaacttg tgctagcaaa ccttggtgcc tacttttagc aacaggagtt tcttccattc 120
 aaccaacttg ggtcattgaa ctctgggttct tatttgcaac aacaacaact accattcagc 180

caggtacctg gtggctaccc ccagcaatth cttccattca accaactagc agcattggac 240
tctcctgctt atttacagga gcaaccacta ctaccattca gccagcttgc tgggtgtgagc 300
cctgggttcc ttttgacaca accgcagttg gtggcggtct accaggacgg tgggcctaag 360
gcttgccccc ttttacaact gtaacaattg ctggcattga agcaacatgg tttggcaaaa 420
ccagaggggtg gtaccgacga ctcatcaat 449

<210> 12189

<211> 259

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-120-Q6-K6-B5

<400> 12189

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ctgcgcctaa cgctggcacc ctcttacaac tgcaacaatt gctgccattc aaccaacttg 120
ctttgacaaa cccagcagcg ttctaccaac aacccatcat tgggtggtgcc ctctttttaga 180
tttcttatga gttatagttc aataataaag ttttttgtct gatgtttgtg gcttcccaga 240
aataagaaag tacatttct 259

<210> 12190

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-120-Q6-K6-B6

<400> 12190

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aaaaaaaaat taaaaaaaaa aaaaaggggc gggccggttt taggaggatc acaagcttta 120
cgtcaccgcy tcgcatcgca acgttcataa gcttcttttt tatagtggta caccttaaaa 180
ttacaatata actgggcccc gtcgggtcttt acaaacgttc gtggacttgg gaaaaaaccc 240
ttggcggttc acccaacttt aaatcgctt tgcgagaaca attccccttt toggccagct 300
tggcggtaat acgcaaaaag gcccggaacc gaatcgctt ttccaaacag ttgccgcagc 360
cttgaatggc agaagtggaa cgc 383

<210> 12191

<211> 140

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-120-Q6-K6-B7

<400> 12191

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aaagtctttt ttgctgatct ttgtggcttc ccagaactaa cgaaatacat ttttagattc 120

ttatcgtgct tctagtctcc 140

<210> 12192

<211> 641

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-120-Q6-K6-B8

<400> 12192

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ctaccaagat attagccctc cttgcgcttc ttgccctttt agtgagcgca acaaatgcgt 120

tcattattcc acagtgtctc cttgctccta gtgccagtat tccacagttc ctcccaccag 180

ttacttcaat gggcttcgaa catccagccg tgcaagccta caggctacaa ctagcgcttg 240

cggcgagcgc cttacaacaa ccaattgcc aattgcaaca acaatccttg gcacatctaa 300

ccctacaaac cattgcaacg caacaacaac aacaacagtt tctgccatca ctgagccacc 360

tagccgtggt gaaccctgtc acctacttgc aacagcagct gcttgcatcc aaccacttg 420

ctctggcgaa cgtagctgca taccagcaac aacaacagct gcaacagttt atgccagtgc 480

tcagtcaact agccatggtg aaccctgccg tctacctaca actactttca tctagcccg 540

tcgcggtggg caatgcacct acgtacctac aacaacagtt gctgcaacaa attgtaccag 600

ctctgactca gctagctgtg gcaaaacctg ctgcctactt a 641

<210> 12193

<211> 623

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-120-Q6-K6-B9

<400> 12193

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tgctccttgc tctttctaca tgtgttgcta acgcgacaat tttccctcaa tgctcacaag 120
ctcctatagc ttcctttctt ccccatatac ttccatcaat tatagcttca atatgtgaaa 180
accagctctt tcaaccatat aggtttcaac aagcaatcgc agcaagcaac atacctttat 240
cgcccttggt gtttcaacaa tcgccagccc tatctttggt gcagtcattg gtacaaacca 300
tcagggcaca acagctgcag caactcgtgc tacctctgat caaccaagta gctctggcaa 360
acctttctcc ctactctcag caacaacaat ttcttccatt caaccaactg tctacactga 420
accctgctgc ttatttgcag caacaactat taccatttag ccagctagct actgcctact 480
ctcagcaaca acaacttctt ccatttaacc aattggcgcg actgaacccc gctgcttatt 540
tgcagcagca aatactacta ccatttagcc agctagctgc agcaaaccgt gcttccttct 600
tgaccagcaa cagttgctgc ctt 623

<210> 12194

<211> 635

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-120-Q6-K6-C1

<400> 12194

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atattttccc tccttatgct ccttgctctt tctacatgtg ttgctaacgc gacaattttc 120
cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaattata 180
gcttcagtat gtgaaaaccc agctcttcaa ccatataggc ttcaacaagc aatcgcagca 240
agcaacatac ctttatcgcc cttgttggtt caacaatcac cagecctatc tttggtgcag 300
tcattgggtac aaaccatcag ggcacaacag ctgcagcaac tcgtgctacc tgtgatcaac 360
caagtagctc tggcaaacct ttctccctac tctcagcaac aacaatttct tccattcaac 420
caactgtcta cactgaaccc tgctgcttat ttgcagcaac aactattacc atttagccag 480

ctagctactg cctactctca gcaacaacaa cttcttccat ttaaccaatt ggccgcactg 540
aaccgccgtg cttatttgca gcagcaaata ctactgccat ttagcgagct agctgcagca 600
agtcgtgctt ccttcttgac acagcacagt tgctg 635

<210> 12195
<211> 624
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-120-Q6-K6-C10
<400> 12195

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gtgctcactt gctcctagt gtagtattcc acagtctctc ccaccagtta cttcaatggg 180
cttcgaacat ccagccgtgc aagcctacag gctacaacta gcgcttgagg cgagcgctt 240
acaacaacca attgcccatt tgcaacaaca atccttggca catctaacc tacaaccat 300
tgcaacgcaa caacaacaac aacagtttct gccatcactg agccacctag ccgtggtgaa 360
ccctgtcacc tacttgcaac agcagctgct tgcattcaac ccacttgctc tggcgaacgt 420
agctgcatac cagcaacaac aacagctgca acagtttatg ccagtgtca gtcaactagc 480
catgggtgaac cctgccgtct acctacaact actttcatct agcccgctcg cgggtgggcaa 540
tgcacctagc tacctacaac aacagttgct gcaacaaatt gtaccagctc tgactcagct 600
agctgtggca aaccctgctg ccta 624

<210> 12196
<211> 636
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-120-Q6-K6-C11
<400> 12196

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accctacagg atccaacagg caatcgagc aggcatttta cctttatcac ccttgttcct 120
ccaacaaccg tcagccctat tacagcagtt accttgggtg catttggttg cacaaaacat 180

caaggcacia caactacaac aacttgtgct aggaacacctt gctgectact ctacgcaaca 240
 gcagttttctt ccattcaacc aactggctgc attgaactct gctgcttatt tgcaacaaca 300
 actaccattc agtcagctag ctgctgccta cccccagcaa tttcttccat tcaaccaact 360
 ggcagcattg aactctgctg cttattttaca acagcaacag ctaccaccat tcagccagct 420
 agctgatgtg agccctgttg cttctttgac acaacaacag ttgttgccgt tctacctgca 480
 cgctgcgctt aacgctggca ccctcttaca actgcaacaa ttgctgccat tcaaccaact 540
 tgctttgaca aaccaacaa cgttctacca acaaccatc attggcggtg ccctctttta 600
 gattgcttat gagttatagt tcataatgaa gttttt 636

<210> 12197

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-120-Q6-K6-C2

<400> 12197

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 gagcggggcg cgcgacggcg ggattagagg tcatacatcc ggaagccttg cacgggggtg 120
 ccgtgagaag cggggattcc gttgacgaac cgccgctggg tgccctgtgct gcccgatggc 180
 tgtccctgga ggtgctcggg gctgctcggg gtgcgggggtt ggggggttgct ttttcggggg 240
 ccttggtgga tgtgtccggc 260

<210> 12198

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-120-Q6-K6-C3

<400> 12198

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 ccagcatcaa caagttcaca tgctgctcgc gaaaacgtga gtatcgacag ggagtttatg 120
 ttcagacaac tatcaacgag ccatgccgta aaccatacat catctgcacc ttcacagca 180
 ccaactacat cttgattgtg aaggccgaca tttcatctc gatcgatctc atggccatgt 240

gccacagcct ggacggttcc atgtgcagcc c

271

<210> 12199

<211> 595

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-120-Q6-K6-C4

<400> 12199

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aattttgcct ccttatgctc cttggtcttt ctgcaagtgc tgctacggcg accattttcc 120
cgcaatgctc gcaagctcct atagcttccc ttcttcccc gtacctctca ccagcgggtg 180
cttcgggtatg tgaaaaccca attcttcaac cctacaggat ccaacaggca atcgagctg 240
gcatcttacc tttatcaccc ttgttctctc aacaatcatc agccctatta caacagttac 300
ctttggtgca tttattggca caaaacatca gggcacaaca actacaacaa cttgtgctag 360
caaaccttgc tgcctactct cagcaacagc agtttcttcc attcaaccaa ctaggttcat 420
tgaactctgc ttcttatttg caacaacaac aactaccatt cagccagcta cctgctgcct 480
acccccagca atttcttcca ttcaaccaac tagcagcatt gaactctcct gcttatttac 540
agcagcaaca actactacca ttcagccagc tagcttggtg tgagccctgc tacct 595

<210> 12200

<211> 581

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-120-Q6-K6-C7

<400> 12200

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gaaaaccag ctcttcaacc atataggctt caacaagcaa tcgcagcaag caacatacct 120
ttatcgccct tggtgtttca acaatcgcca gccctatctt tgggtgcagtc attggtacaa 180
accatcaggg cacaacagct gcagcaactc gtgctacctc tgatcaacca agtagctctg 240
gcaaaccctt ctccctactc tcagcaacaa caatttcttc cattcaacca actgtctaca 300
ctgaaccctg ctgcttattt gcagcaacaa ctattaccat ttagccagct agctactgcc 360

tactctcagc aacaacaact tcttccatth aaccaattgg ccgcactgaa ccccgctgct 420
 tattttgcagc agcaaatact actaccatth agccagctag ctgcagcaaa ccgtgcttcc 480
 ttcttgacac agcaacagtt gctgcctthc taccagcagt ttgcggctaa ccccgcaacc 540
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<210> 12201

<211> 502

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-120-Q6-K6-C9

<400> 12201

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 aagtggcatt cctattggta ttgggcaaaa ttcattgcac aggagagcaa tcattgacaa 120
 gaatgctcga attggagaca ttgttaagat gctcaatgct gactgtgttc aagaagctgc 180
 gatggggaca gacgggtact tcatcaaagg tggaattgtc acagtgatct atagatgctt 240
 tactccctag tggaacagct atatgaagtg aacgtgcgac atgccattgt ttgtctctgc 300
 attogacgat gatcagcacc tggctacatg cgctatctgc acatcattct gcttgatata 360
 atcggcgcac ttatagtgtc atccaaggaa tttttctctt ctttttagctc ttttgtgtcc 420
 ttcaatgttg tccggtaaaa tgttgttctt gcaaagtgtt gttacatggt gaatacttat 480
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<210> 12202

<211> 639

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-120-Q6-K6-D1

<400> 12202

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 cgtcagcggg ttgccaatgt cgaccacggn aaagcatgct cctctctcat ctccacaccg 120
 tgcagtagct gctgcccgtg gcatgtaatg caatggaata agttatcaag gcaactaaca 180

ctgaacatag ttcttgggct ccttggcagc gtcgaggcat ggtatctgcc cacgccattg 240
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atatacatgc cactttccag atgaagtga gagaccaa atgtgatgtca atcaatctct 360
agatgaagga atgaaaggaa ggagctaagt tattgcaactg gatgtacggg gtctagaaaa 420
gctagcagtg caagcataga acctatgaaa catggatact tggttacaaa attcaacttt 480
cagtcaagtt ttgttcaaca agggctctgat tgagacttcc atgaaactga tcgatttgtc 540
gttgctgtca tgtatgtgaa cttatggttt agaagcagct aagtttccaa catgttacat 600
ggtanggaat gtatttgcta acactatttg ctagcacta 639

<210> 12203
<211> 629
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-120-Q6-K6-D12
<400> 12203

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ggtgcatctc ccaccgccgg tccacctgcc gccgcgggtc cacctgccac cgccgggtcca 180
tgtgcgcgcg ccggttcata tgccgcgcgc accatgccac taccctactc aaccgccccg 240
gcctcagcct catccccagc cacacccatg cccgtgccaa cagccgcata caagcccggtg 300
ccagctgcag ggaacctgcg gcgttggcag caccgccatc ctgggccagt gcgtcgagtt 360
tctgaggcat cagtgcagcc cgacggcgac gccctactgc tcgcctcagt gccagtcggt 420
gcggcagcag tggttgcagc agctcaggca ggtggagccg cagcaccggt accaggcgat 480
cttcggcttg gtctccagt ccactctgca gcagccgact ccatgccctt acgtgctgc 540
cggcgggtgt cccactgaa gaaactatgt gctgtagtat agccgctggc tagctagcta 600
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<210> 12204
<211> 650
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-120-Q6-K6-D2

<400> 12204

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cgaccatttt tcctcaatac tcacaagctc ctatagctgc ccttcttccc ccataccttc 180
catcaatgac cgcttcagtt tgtgaaaacc cagcccttca accctacagg ctccaacaag 240
caatcgcaac aagcaactta cctttatcac ccctgttctt tcaacaatcg ccagccctat 300
ctttgggtgca gtcattggta caaaccatca gggcacaaca gctgcaacaa ctctgctac 360
cagtgateag ccaagtagct ctggcaaacc tttctcccta ctctcagcaa caacaatttc 420
ttccattcaa ccaactgtct aactgaacc ctgctgctta ttacaacaa caacaactac 480
taccattcag ccagctagct actgcctact ctccagcagca acaatttctt ccatttaacc 540
aattggcgcg actgaacccc tctgcttatt tccagcagca aataactacta ccatttggcc 600
agctagctac aacaagcccc acttcctttt tgaaacaaca acaattgctt 650

<210> 12205

<211> 562

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-120-Q6-K6-D4

<400> 12205

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ttccattcaa ccaactaggg tcattgaact ctgcttctta ttgcaacaa caacaactac 180
cattcagcca gctacctgct gctaccccc agcaatttct tccattcaac caactagcag 240
cattgaactc tcctgcttat ttacagcagc aacaactact accattcagc cagctagctg 300
gtgtgagccc tgctaccttc ttgacacaac cacagttggg gccggtctac cagcacgttg 360
cgcctaacgc tggcaccctc ttacaactgc aacaattgct gccattcaac caacttgctt 420
tgacaaaacc agcagtggtc taccaacaac ccatcattgg tgggtgccctc ttttagattt 480
cttatgagtt atagttcaat aataaagttt tttatctgat gtttgtggct tcccagaaaa 540

agaaagtaca tttctagatt ct

562

<210> 12206

<211> 616

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-120-Q6-K6-D5

<400> 12206

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ttcctgtaat tgagccacca tcacgtgaaa ggcaggcatt tcttccggct gctcctctag 180
aaatgcctca tccaggtgga tactcttgtg ttgcggcttt ggctgagcac cagccaccaa 240
gcatggattt ctcttacatg gctggcagta gcacataccc agtctttgac atgatccgcc 300
gaccgtgcaa catgtctagt ggaagcttgt gcagcgtcga gaacagttca ctagacacct 360
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ccgaccactg gtcggagggt gcggaggcgg gaacaagcta tgccggatcg gacatcatgg 480
tggtatgcagg ggccatgcaa ccgctgcctt tcgctgagaa tttcaccatg gctccaagcc 540
acttcagccc ggagagcatc gaggagcaga tgatgttttt catgggcccgt gtcactagca 600
gaaagtcatc atggta 616

<210> 12207

<211> 624

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-120-Q6-K6-D6

<400> 12207

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ctcctatage ttcccttctt ccccatacc ttccatcaat gatagcttca gtatgtgaaa 180
accagctct tcagccctat aggctccaac aagcaatcgc agcaagcaac atacctttat 240
cacccttggt gtttcaacaa tcgccagccc tatctttggt gcagtcattg gtacaaacca 300

tcagggcaca gcagctgcag caactcgtgc tacctgtgat caaccaagta gctctggcaa 360
 acctttctcc ctactctcag caacaacaat ttcttccatt caaccaactg tctacactga 420
 accctgctgc ttatttgcag caacaactat taccattcag ccagctagct actgcctact 480
 ctcagcaaca acaacttctt ccattttaacc aattggccgc actgaacccc gctgcttatt 540
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 tgacacagca acagttgctg cctt 624

<210> 12208
 <211> 630
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-120-Q6-K6-D7

<400> 12208

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 tggcgaccgc cgtggtggcc ttggtgctgc tggcgccggc ggcgacctcg gaggcggcca 180
 tcagctgcgg gcaggtggcg tcggccatcg cgccctgcat ctctacgcg cgcggccagg 240
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 ccaccgccga ccgccgcgcc gcctgcaact gcctcaagaa cgccgccgcc ggcgtcagcg 360
 gcctcaacgc cggcaacgcc gccagcatcc cctccaagtg cggcgtcagc atccccata 420
 ccatcagcac ctccaccgac tgctccagg tgaactgaac cctaaacgac gacgacgggc 480
 gacggcggcc acctgaagac gatccatct tatcccgccg tacgtcggcg cccgcggatc 540
 ggaccgtcat gaccatatct agctacctac gcatgatcgt cacgacttgc atgtctacta 600
 ctgctacgtg tactactact gaataaaaac 630

<210> 12209
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-120-Q6-K6-D8

<400> 12209

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aaccaactag cagcattgaa ctctgctgct tatttacagc agcaacaact actaccattc 120
agccagctag ctgatgtgag ccctgctgcc ttcttgacac aacaacagtt gttgccgttc 180
tacctgcacg ctatgcctaa cgctggcacc ctcttacaac tgcaacaatt gctgccattc 240
aaccaacttg ctttgacaaa cccaacagtg ttctaccaac aacccatcat tgggtggtgcc 300
ctcttttaga ttgcttatga gttatagttc aataatgaag ttttttggat gatgtttgtg 360
gcgtcccaga aataagaaag tacatttcta g 391

<210> 12210
<211> 667
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-120-Q6-K6-D9
<400> 12210

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ctctataatt gctatctcca gaagcaattt atcattggat gagcagcatg atagtcccaa 180
agaatatacc aagagacatg aaccttcaag agaaactgat aataataagg gagggngaag 240
atcacatggc aggctgctcc cagcctgttg gcaacatggg gatgtctcaa ggtgcaggca 300
ttgcatgtaa tgggtgataaa aatacgggtg cagcagctta tttccaggat aaagatgtct 360
ctgcatcttc tgctattgaa aatgtagcac tgcggcactg cacagcttca tcgctcaagt 420
taaagtgtacc tccaattgat gttgacaagg taagatgcat agtaagaaat atcgtgagag 480
attgggggtga tgaggggtcaa aaggaacgtg atgagtgcta taagcccatt cttgaggagc 540
ttaatcgctt ttttccctaac cggagcgatc agaggcctcc ttcatgtctt gtccctggtg 600
cctggccttg gagattggct cttgatatat cttctctggg ttttgtaagc caaggggaatg 660
aattctc 667

<210> 12211
<211> 569
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-120-Q6-K6-E10

<400> 12211

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gagatgagtt ggtttccaaa gtccgtatatt atcaccatgt ggttggtggt gttctaaacc 180
cgaatgctgc gtaccttata cttcgaggca tgaaaacact tcatctccgt gtgcaatgtc 240
agaataacac tgctcttcgg atggcccagt ttttagagga acatctaaag attgcccgtg 300
tctactatcc tggcttgccct agccaccctg aacatcacat tgccaagagt caaatgactg 360
gctttggtgg tgtggttagt tttgaggttg ctggagactt tgatgccaca aggaaattca 420
tcgattctgt taagatacdc tatcatgccc cttcttttcgg aggctgtgag agcataattg 480
atcagcctgc tatcatgtcc tactgggatt caaaggagca gagggacatc tatgggatca 540
aggacaacct gatcaggttc agcattgga 569

<210> 12212

<211> 588

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-120-Q6-K6-E11

<400> 12212

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gtatacgaca acgtcgcga cgcgttcgtg aagatcctac gcgacgaggg cccgtcggag 120
ctgtaccgtg ggctgacacc cagcctgata ggcgtggtgc cgtacgcggc ctgtaacttc 180
tacgcctacg agacgtgaa gcggtcttac cgtcgcgcga ccgggcggcg tcccggcgcg 240
gacgtgggac ccgtggcgac gctgctcatc gggtcggcgg cgggcgccat cgccagctcg 300
gccacgttcc cgctggaggt ggcccgaag cagatgcagg tgggcgctgt gggcgaggag 360
caggtgtacc agaacgtcct ccacgtatc tactgcatcc tcaagaagga gggcgccggc 420
ggcctgtacc gaggtctcgg ccctagctgc atcaagctca tgcccgcgcg cggcatcgcc 480
ttcatgtgct acgaggcgtg caagaagatc ctcgtcgaca aggagaggat gaggaggagg 540

aggacgngac cggcggcgga gaggatgaca agaaaaagtt gaatgatc

588

<210> 12213

<211> 559

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-120-Q6-K6-E2

<400> 12213

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agcgcgcgcc gcaacgccac catgaagttc aacatcgcca acccttcac cgggtgccaa 120

aagaagctgg aaatcgatga cgaccagaag ctgcgtgcct tttatgaccg aaggatatcc 180

caggaggtca gtggtgatgc tctgggtgag gagttcaagg gttatgtctt caagatcatg 240

ggtggatgtg acaagcaagg ctcccaatg aagcaaggag ttttgacttc tggctcgtgtt 300

cgtcttctgc tccatagggg gactccctgc ttccgtggtt atggcaggcg taatggtgag 360

cgcaggagga agtctgtccg tggttgcac gtgagccaag acctatctgt tatcaacttg 420

gtgattgtga agaaggggtga gaatgatctg cctggtctga ctgacactga gaagccaagg 480

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gatgtacgca agtacgtga 559

<210> 12214

<211> 194

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-120-Q6-K6-E3

<400> 12214

gtgggaatct ccgnnagaat ggaggtgggg ggggacttct cggcgacggg acttacgcag 60

cggaagcgct tcgagacgga tgggggggct tgtgcctacg cttcctctga tcgccgcgct 120

attctaggat ctgtccctcg gagcatatga cagtccagag cctatgcttt acaacaacac 180

atggggtggt aaga 194

<210> 12215

<211> 499

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-120-Q6-K6-E4
 <400> 12215

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 gagacttcta ttagcaagaa acaactcctt gcacgtcttg atgtttgcat ggggtgggagg 180
 gttgctgaag agctgatatt tggggaagac aatgttacia ctggggcgag aaatgacctt 240
 cacactgcaa cagagcttgc ccagtacatg gtatcaaact gcgggatgag tgatgctatc 300
 ggtcctgtgc atgtgaaaga gcgaccaagt gtagagatgc aatcaaggat agatgctgag 360
 gtgggtgaagc tcctaagaga agcttatggg cgggtcaaac gattgcttaa gaagcatgag 420
 aagcaattac atgctttggc aaatgcgctg ctggagcgtg aaacacttac tgcagatgag 480
 atcaciaaagt agttcaccc 499

<210> 12216
 <211> 627
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-120-Q6-K6-E5
 <400> 12216

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 tcgcaacgca gcagcaacaa gcactgagcc acctagccgt ggtgaaccct atcgctact 120
 tgcaacaaca gctgcttgca tccaaccac ttgctttggc aaacgtagct gcataccaac 180
 aacaacaaca gttgcaacag tttctaccag cgctcagtca actagccatg gtgaacccta 240
 tcgcctacct acaacagcaa caacttcttt catctagccc gctcgctatg ggcaatgcac 300
 ctacatacct gcaacaacag ttgttgcaac aacagttgct gcaacaaatt gtaccagctc 360
 ttactcagct agctgtggca aacctgctg cctacttgca acaactactt ccattcaacc 420
 aactgactgt gtcgaactct gctgcgtacc tacaacagcg acaacagtta cttaatccac 480
 tagcgggtggc taaccattg gtcgctgcct tcctacagca gcaacaattg ctgccatata 540
 accagttctc tttgatgaac cctgccttgt cgtggcagca acccatcgtt ggtgggtgcca 600

tcttttagat tacatatgag atgtact

627

<210> 12217

<211> 527

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-120-Q6-K6-E6

<400> 12217

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atttgcagca acaacaacta ctaccattca gccagctagc tactgcctac tctcagcagc 180
aacaatttct tccatttaac caattggccg cactgaacc cttctgcttat ttccagcagc 240
aaatactact accatttggc cagctagcta caacaagccc cgcttccttc ttgacacaac 300
aacaagtgtc tccgttctac cagcagtttg tggctaacc cgcaaccctc ttacaactgc 360
aacagttgct gccctttgtc caacttgctt tgacaaacc agcagccttc taccaacaac 420
acatcattgg cggtgccctc ttttagattg cttattagtt gtaattcaat aatgaagttt 480
tttggtgat gtatgtggcc tcctagaaat aagaagttat atttcca 527

<210> 12218

<211> 575

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-120-Q6-K6-E7

<400> 12218

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tccttgcgct tcttgccctt tttgtgagtg caacaaatgc gttcattatt ccacaatgct 120
cacttgctcc gagtgcatt attccacagt tcctccctcc agttacttca atgggcttcg 180
aacaccagc tgtgcaagcc tataggctac aacaagcgct tgcggcgagc gtcttagaac 240
aaccaattgc ccaattacaa caacaatcct tggcacatct aaccatacaa accatcgcaa 300
cgcagcagca acaagcactg agccacctag ccgtggtgaa ccctatcgcc tacttgcaac 360

aacagctgct tgcattccaac ccacttgctt tggcaaacgt agctgcatac caacaacaac 420
 aacagttgca acagtttcta ccagcgctca gtcaactagc catggtgaac cctatcgctt 480
 acctacaaca gcaacaactt ntttcatcta gcccgcctgc tatgggcaat gcacctacat 540
 acctgcaaca acagttgttg caacaacagt tgctg 575

<210> 12219

<211> 210

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-120-Q6-K6-E8

<400> 12219

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 aattgctttg acaaaccctaa cagcgttcta ccaacaaccc atcattgggt gtgcctctt 120
 ttagattgct tattagttgt aattcaataa taaagttttt tggatgatgt atgtggccaa 180
 ccagaaataa gaagttacat ttccagattt 210

<210> 12220

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-120-Q6-K6-E9

<400> 12220

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 aatgatgggt tgttggtaga aactgctgg gttgtcaaa gcaagttgggt tgaatggcag 120
 caattgttgc agttgtaaga ggggtgccagc gttaggcgca acgtgctgggt agaacggcaa 180
 caactgtgggt tgtgtcaaga aggtagcagg gctcacacca gctagctggc tgaatggtag 240
 tagttgttgc tgcgtgaaat aagcaggaga gttcaatgct gctagttgggt tgaatggaag 300
 aaattgctgg gggtaggcag caggtagctg gctgaatgggt agttgttgggt gttgctaata 360
 agaagcagag ttcaatgaac ctagttgggt gaatggaaga aactgctggt gctgngagtt 420
 ggcagcaagg tttgctag 438

<210> 12221
 <211> 336
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-120-Q6-K6-F1

<400> 12221

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acgtggctgc tgggtccgaga gtcccagggtg tccacccaac tgcggtaggc agcccagcag 180
tcagagggag gaaagctagc ggaaggcgga atccaggatg tcccgaatgc acagacccca 240
ttataccgcc cccttggttag gctgtcttcc agccatcagc gcaactcttct tgtcatgcat 300
cagcacagcg gtcgttactg taaagaacag aaaaag 336
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<210> 12222
 <211> 604
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-120-Q6-K6-F11

<400> 12222

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tgcccaggtc gttgttcggc ccttcgccag ctctttttcg ggcacttcgc cggcgacgaa 120
caccaccag ttgctgatgc aaggctttca aaagattaac agtctcaatt gatgcaaaag 180
caacacaatc aactaaagg tttggattag acatttcaga gcatgggttc gcggtttcca 240
tcccaccagc taagcaatgg cttgtatgtc tcgggccgac ctgagcaacc taaagagaag 300
tctccagtca tttgtcctc ggctatgccg tacactgggtg gggacataaa gaaatctggg 360
gagcttggaa agatgtttga tctccataga aaatctggtc cattgggtaa tcaaacttca 420
aggaatactt ctttgggtgg tgctgcctcc aactctggac cagtttctaa tgctgtcggt 480
cgctccaact actctgggtc tatttcgtct gcaattccta aactggagg atcttctagg 540
acaaaaacta attctggacc tctcaataag catggagaac caacaaagag gtcactctggc 600
cccc 604
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<210> 12223
 <211> 608
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-120-Q6-K6-F12

<400> 12223

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ctgccagaca ccaccgtttc atctaccgcc tccgttctat atgcgcctc cgttctatct    180
gccgcgcgag cagcagccgc agccatggca ataccccaact caaccaccgc agctaagccc    240
gtgccagcag ttcggatcct gcggcgtcgg cagcgtcggc agcccgttcc tgggccagtg    300
cgtcgagttc ctgaggcacc agtgcagccc ggccggcgacg ccctacgggt cgccacagtg    360
ccaggcgctg cagcagcagt gctgccacca gatcaggcag gtggagccgc tgcaccggta    420
ccaggcgaca tacggtgtgg tcctgcagtc cttcctgcag cagcagccgc agggcgagct    480
cgcggcgctg atggcgggccc aagtagcgca gcagctgacg gcgatgtgcg gcctgcagct    540
gcagcagcca ggtccctgcc cttgcacgca gctgccggcg gtgtctacta ctgangaaac    600
tatgtact                                     608
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<210> 12224
 <211> 545
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-120-Q6-K6-F2

<400> 12224

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gatgctgctg ctaccagcag cagcgagaag aagacgtcgt ggccggagggt ggtgggcatg    180
tccatcaagg aggcgacgga gactattctc aaggacatgc ccaacgcgta catccagggt    240
ctgcctgttg ggtcgcccggt gacgctggac cttcgccccg accgcgtccg tatcttcggt    300
gacaccgtcg ccatgactcc gacagttggg tgatacatat caaatgcaat aaacaaaccc    360
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tactttttat tttatgtttc cagttaataa taaaccaggc cttagcttct tggttgtcct 420
 tccttggttg gtgttagctt ctaagctact agtacaccat taaaaaaagg aggacctcat 480
 gtatggctac cgtgaaaaat gtgatcttga tggaataata tatcataaat aagcaattaa 540
 tgatg 545

<210> 12225
 <211> 187
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-120-Q6-K6-F4

<400> 12225
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 gtacacaaca tttgaaccga tgatggttga tctgaactca gaggagttaa ctagagaatt 180
 gccacat 187

<210> 12226
 <211> 377
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-120-Q6-K6-F6

<400> 12226
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 gtgaaaaccc tgcaatttcc taacttagtc gcctatgccc catatcccca tttggccaaa 180
 tggcgaaaag gccaaagagg ctcgaccttt cgacctttcc aacagtttga aaggctaattg 240
 ggacaatggc tctagccctg tattaagccc ttaagcgggt ggggttacgt ggatactgac 300
 cattacactt gtcaacttgc tagcgccta tcctttgggt tttttgcttt ctttcttgc 360
 tttttcgccg gttttcc 377

<210> 12227
 <211> 579
 <212> DNA

<213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-120-Q6-K6-F8

<400> 12227

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 cctcaacagg cttgtgtccc aggtcatatc atccctgact gcctccttga ggttcgatgg 180
 tgctcttaac gtggatgtga atgagttcca gaccaacttg gtgccctacc cgaggatcca 240
 cttcatgctt tctcctatg ctccagtcac ctctgctgag aaggcctacc acgagcagct 300
 gtctgtggcc gagatcacca acagcgctt cgagccatcc tccatgatgg ccaagtgcga 360
 tccccgcat ggtaagtaca tggcctgctg cctcatgtac cgtgggtgatg tggccccaa 420
 ggatgtgaat gctgctgtgg ccaccatcaa gaccaagcgc accatccagt ttgtggactg 480
 gtgcccact ggctttaagt gcggtattaa ctaccagcct ccaagtgtgg tgcttggtg 540
 gtgacctggc caaggtgcag cgcgctgtgt gcatgatct 579

<210> 12228
 <211> 241
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-120-Q6-K6-F9

<400> 12228

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 ataatgcttg cttgctccct tgttccttgt tgcacagttg aatcggtgcc gtgtctttat 180
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 t 241

<210> 12229
 <211> 564
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-120-Q6-K6-G1

<400> 12229

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agcgttgact tgctcaaagt cccaatatta cacatgcttc taccaccagc tactagcaat 180
gggcttaaaa cacaccactt gggcaagcct acaggcatca acatgcaacg gcggtgagcg 240
gataacaaca acctattttc cagatgcaac aacaatcctt ggcacatgta acaatacaaa 300
ccatcgcaac gaaccagcaa caacgatttc taccagcact gagccaccta gccatggtga 360
accctgccgc ctactagcaa cagcaggtgc ttgcataaaa cccacttgct atggcaaacg 420
taattgcaaa ccagccacaa caacagatgc aacagttgct gccagcgctc agacaactat 480
ccatggagaa ccctggcgac tgacctacac agcaacaact gatttcattc agctcgcac 540
gtgagaccaa tgcacctaca tacc 564

<210> 12230

<211> 559

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-120-Q6-K6-G10

<400> 12230

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aaatggcact gttctctcaa ccaattggaa agatgttgga gcaaagaagg tagaaggag 180
ccccctgat ggtatggagc tcaagaagtg ggaatactaa agtttggact gccatcttt 240
tgtaaateca ggtcttgga actatgacct aattccgtcc acccatagtg ccatgagctt 300
gcttggttaa gtctctgctt ttgtaagctt tctgtatgac agtctagcgt gtgtctgagt 360
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catctgtggt atcaaagaca gcaaactata atgtatggaa tgcctattct ttttggtcta 480
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ggacctatgt tacagtgg 559

<210> 12231
 <211> 617
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-120-Q6-K6-G12

<400> 12231

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 aaccttgctg cctactctca gcaacagcag tttcttccat tcaaccaact ggctgcattg 180
 aactctgctg cttatttgca acaacaacta ccattcagtc agctagctgc tgcctacccc 240
 cagcaatttc ttccattcaa ccaactggca gcattgaact ctgctgctta ttacaacag 300
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 caacaattgc tgccattcaa ccaacttgct ttgacaaacc caacagcggt ctaccaacaa 480
 cccatcatnt ggtgggtgcc tcttttagat tgcttatgag ttatacttca ataatgaagt 540
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 aaaaaaaagg cggccgc 617

<210> 12232
 <211> 583
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-120-Q6-K6-G2

<400> 12232

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 tcctatagct tcccttcttc ccccgtagct ctaccagcg gtgtcttcgg tatgtgaaaa 180
 cccaattctt caaccctaca ggatccaaca ggcaatcaca gctggcatct tacctttatc 240
 acccttgctt ctccaacaat catcagccct attacatcag ttacctttgg tgcatttatt 300

ggcacaaaac atcagggcac aacaactaca acaacttggtg ctagcaaacc ttgctgccta 360
ctctcagcaa cagcagtttc ttccattcaa ccaactagct gcattgaact ctgcttctta 420
tttgcaacaa caacaactac cattcagcca gctacctgct gcctaccccc agcaatttct 480
tccattcaac caactggcag cattgaactc tcttgcttat ttacagcagc aacaactact 540
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<210> 12233

<211> 489

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-120-Q6-K6-G3

<400> 12233

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gtttctttgta cacagacagg cggatgcagc tgtggtcaac atcaaagcca tcagcagcaa 180
cattatacac aacaacatga ttcacaaaca caacaacttt aaccaccacc acaacatcac 240
cagctgctag ctactccaac aacaacacgt tcacatgcac ctccacaatc atcaccgcca 300
gcaggaaggt gatgttgaac aacaacagca acaaccgcag tagctcgccc tacatcagca 360
acaacgagcc caacaccggc ctcttctgtg aggccgacca cttgttggcc tacaatcaca 420
tggcggttggt caacatctcg aacagtgtcc tgagcaacat caatgacaga gtcttgattt 480
tctaacttt 489

<210> 12234

<211> 573

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-120-Q6-K6-G4

<400> 12234

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gggcgatggc ggcggtgat gtggagtacc gttgcttcgt cggcgggctt gcctgggcca 120
ccagcaacga gtcgctggag aatgccttcg cctcctacgg cgagatcctc gactccaagg 180

tcatcaccga ccgggagacg gggaggtctc ggggcttcgg ctctggtacc ttctcctccg 240
 agaactccat gctcgacgct atcgagaaca tgaacggcaa ggagctcgac ggccgtaaca 300
 tcaccgttaa ccaggcccag tcccgtggcg gtggcggtgg cggcggtggc tacggcggcg 360
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 gctacggcgg tcggcgcgag ggtggtggcg ggggctaccg aggcgggtggc ggctacggcg 480
 gtcggcgcgga ggggtggtgt ggcggctacc gggcgggcgg cggcggtgg agggactgat 540
 gtgtggggccc atcctggctt cggccgagtt atc 573

<210> 12235

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-120-Q6-K6-G5

<400> 12235

cagccagcta gctactgcct actctcatca acaacaactt ctccattta accaattggc 60
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 tgcagcaagc cgtgcttctt tcttgacaca gcaacagttg ctgcctttct accagcagtt 180
 tgcgggtaac cccgcaacct tcttacaact acaacaattg ttgccctttg tccaacttgc 240
 tttgacaaac ccagcagcct cctaccaaca acacatcatt ggtggtgccc tcttttagat 300
 tgcttattag ttgtaattca ataataaagt tttttggatg atgtatgtgg ccaaccagaa 360
 ataagaagtt acatttccag attct 385

<210> 12236

<211> 546

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-120-Q6-K6-G6

<400> 12236

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 cgccaacctg accgcctccg ccggcgacga cacgtacttc tccgccgagg ccccgacgt 180

gccgtccatg gtgctcccca tctgcgacga cttcgacggc ttccaggcgg ccaccaagga 240
tatggtgaag aataagaagg ggacgaccac gcttgccctc atcttcgaca agggcgatcat 300
cgtcgccgct gattccaggg ccagcatggg cggttatata tcttcacaaa ccgtgaggaa 360
aattattgaa ataaatccat acatgctggg gacaatggct ggaggtgctg ctgattgcca 420
atcttgcat aggaacctag gaaccaagtg tcgtctccat gagctttcaa acaagcgaag 480
gatctctatt gctggtgctt ccaaactggt ggctaacatc ctttattcat atcctgggat 540
gggact 546

<210> 12237
<211> 135
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-120-Q6-K6-G7
<400> 12237

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tatagttcaa taatgaagtt ttttgatga tgttgtggc gtcccagaaa taagaaagta 120
catttctaga ttctt 135

<210> 12238
<211> 659
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-120-Q6-K6-G8
<400> 12238

gagaccaaca gcacatagaa gtggaatcca gtagcaacaa tagagcaaca atggcgacca 60
agatattttc cctccttatg ctcttgctc tttctacatg tgttgctaac gcgacaattt 120
tccctcaatg ctcaagct cctatagctt ccttcttcc ccatacctt ccatcaatta 180
tagcttcaat atgtgaaaac ccagctcttc aaccatatag gcttcaacaa gcaatcgag 240
caagcaacat acctttatcg cccttggtgt ttcaacaatc gccagcccta tctttggtgc 300
agtcattggt acaaaccatc agggcacaac agctgcagca actcgtgcta cctctgatca 360
accaagtagc tctggcaaac ctttctcct actctcagca acaacaattt cttccattca 420

accaactgtc tacactgaac cctgctgctt atttgcagca acaactatta ccatttagcc 480
 agctagctac tgcctactct cagcaacaac aatttcttcc atttaaccaa ttggccgcac 540
 tgaaccccg c tgcttatttg cagcagcaaa tactactacc atttagccag ctagctgcag 600
 caaacctgtc ttccttcttg acacagcaca gttgctgctt tttaccagca gtttgccgc 659

<210> 12239

<211> 670

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-120-Q6-K6-H1

<400> 12239

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 ttgcctcctt atgctccttg gtctttctgc aagtgtgctt acggcgacca ttttcccaca 120
 atgctcacia gtctctatag ctctccttct tccccgtac ctctcaccag cgggtgtcttc 180
 ggtatgtgaa aacccaattc ttcaacccta taggatccaa caggcaatcg cagctggcat 240
 ctacacctta tcaccttctg tctccaaca atcatcagcc ctattacagc agttaccttt 300
 ggtgcattta ttggcacaaa acatcagggc acaacaacta caacaacttg tgctagcaaa 360
 ccttgctgcc tactctcagc aacaacagtt tcttccattc aaccaactag ctgcattgaa 420
 ctctgcttct tatttgcaac aacaacaact accattcagc cagctatctg ctgcctaccc 480
 ccagcaattt ctccattca accaactgac agctttgaac tctcctgctt atttacagca 540
 gcaacaacta ctaccattca gccagctagc tgggtgtgagc cctgctacct tcttgacaca 600
 ccacaattgn tgccgttcta ccagcacgct gcgcctaacg ctggcaccct cttaactgac 660
 aacaatgctg 670

<210> 12240

<211> 597

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-120-Q6-K6-H10

<400> 12240

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 ctcagcgtgg cagctcctga tcgccaactt caccgagttc cagctcgcca ccgtcgtcac 120
 cttectgctc cagcagaccg tcttcttctt ctccggcctc cctccctcc tcttcgagcg 180
 cttcggactc ttgcgaagt acaagatcca gaagaagagc aacacctctg cttacaaaaa 240
 cagatgtgtc ttgcgcctca ttctctacca tgtatgtgtg aacctgcctg tcatgatttt 300
 ctcgatcctt gccttcaaat tcatgggtct caggagctct cttcctttgc cacattggtc 360
 gggtgttgta tctcaagttc ttttctactt tgtccttgag gattttatat tctattgggg 420
 gcacagggca ttgcatacga aatggctata caaacacggt cacagcgtcc accatgagta 480
 cgccacaccc tttggtttaa catcggaata tgcccaccca gctgaaattt tgttcctggg 540
 attcgccaca gttgttggtc ctgctcttac tggeccctcat ctcttcaccc tgtggct 597

<210> 12241

<211> 556

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-120-Q6-K6-H2

<400> 12241

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 gtccgctccc gcgcggcgcc cctgggtcct ctaccgacgc cgcccctggg tctctaccg 180
 acgcgcgccc tgggtctcct ccgcccgcgcg cccctgggtc tcttcgcgcc gtcgggtcca 240
 atcaagcgac ggctgcaaga tgcaggaggt ttctgatcca ccagaaacag taaggaaagc 300
 agaaacaaaa aatattactt ccattgggaa ggatgtgatt ttcgagcaag atccatgctc 360
 ttcatatcag ttatggggca gtatgaaatt tgaagaagat ggccatttgc tatctcagga 420
 ttatagagca cagtccgccc acaccaaata tgttactgaa cttgggtcac atgcatgttt 480
 gaaggatcca ttgccaatgg ggaagagatt atcataggca gaaactacaa ttttctactt 540
 cagagtgttc ttttga 556

<210> 12242

<211> 638

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-120-Q6-K6-H3

<400> 12242

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agatattagc cctccttgcg cttcttgccc tttttgtgag cgcaacaaat gcgttcatta 120
ttccacaatg ctcaacttgc cctagtgcga ttattccaca gttcctccca ccagttactt 180
caatggggtt cgaacaccta gctgtgcaag ccaacatgca acaacaagcg cttgcggcga 240
gcgtcttaca acaaccaatt gcccaattgc aacaacaatc cttgccacat ctaacaatac 300
aagccatcac aacgcaacag caacaacagt tcctaccagc actgagccac ctagccatgg 360
tgaacctgc cgcctacttg caagagcagc tgcttgcatc caaccactt gctctggcga 420
acgtagtgtc aaaccagcaa caacaacagc tacaacagtt tctgccaaag ctcaagtcaac 480
tagccatggt gaacctgcc gcctacgtac aacaacaaca actgctttca tctagccgcg 540
tcgctgtggg caatgcacct acatacctgc aacaacaatt gttgcaacag attgtaccag 600
ctctgactca actagctgtg gcaaaccctg ttgcctac 638

<210> 12243

<211> 208

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-120-Q6-K6-H4

<400> 12243

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagggggg 120
gggccgtttt tgggggttcc cggtttccgt tccgcgtgct tgcgcacttt tttttttttt 180
ttttggggcc ccttaatttc atttgggg 208

<210> 12244

<211> 580

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-120-Q6-K6-H5

<400> 12244

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atgctccttg gtctttctgc aagtgtgtgt acggcgacca ttttcccgca atgctcgcaa 120
gctcctatag cttcccttct tccccgtac ctttcaccag cgggtgtcttc ggtgtgtgaa 180
aaccaattc ttcaacccta caggatccaa caggcaatca cagctggcat cttaccttta 240
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ttggcacaaa acatgagggc acatcatcta ctacaacttg tgctagcaaa ccttgctgcc 360
tacttatagc gacagcagtt tcttccattc aaccaactag ctgcattgaa ctctgcttct 420
taattgcaac agcaacaact accattcagc cagctacctg ctgcctaccc ccagcaattt 480
tttccattta accatctggc agcattgaac tctcatgett attttcagca gcttccactt 540
ctaccattca aacagctagc tgggtgtgagc ccatctacct 580

<210> 12245

<211> 542

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-120-Q6-K6-H6

<400> 12245

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tgcttttagta tcaagtgttt cttgtacaca gacaggcggc tgcagctgtg gtcaacaaca 180
aagccatgag cagcaacatc atccacaaca acatcatcca caaaaacaac aacatcaacc 240
accaccacaa catcaccagc agcagcaaca ccaacaacaa caagttcaca tgcaaccaca 300
aaaacatcag caacaacaag aagttcatgt tcaacaacaa caacaacaac cgcagcacca 360
ccaccaacaa caacaacaac agcaccaaca acaacatcaa tgtgaaggcc aacaacaaca 420
tcaccaacaa tcacaaggcc atgtgcaaca acacgaacag agccatgagc aacaccaagg 480
acagagccat gagcaacaac atcaacaaca attccagggt catgacaagc agcaacaacc 540
ac 542

<210> 12246
 <211> 528
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-120-Q6-K6-H8

<400> 12246

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tttaaaaaaa aaaaaaaaaa tttaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaaa aaaaaatttt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagggggg gggccgtttt 180
tgggggtccc catttttccc ccccggttgt ttggagggtt tttctttttt tttttggggc 240
ccctaaatta aattccgggg cgggggtttt ccccccttgg gggggggaaa accccgggtt 300
tccccaatth ttttgctttg gggaaatttc cttttttccc cgggggggtt tttaggaaag 360
ggcccccccc gttccccctt tcccaccttt tccccccctt tttgggaatt ggggcccccc 420
ctttttcggg ttttttaagc cgggggttg ggggggttcc ccccggggga ctttttcttt 480
ttgcgggggc tttggcccc gctctttggg ttttttccct tttttttt 528

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<210> 12247
 <211> 652
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-120-Q6-K6-H9

<400> 12247

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caagatatta tccctccttg cgcttcttgc gctttttgcg agcgcaaca atgcgttcat 120
tattccacaa tgetcacttg ctccaagttc cattattaca cagtccctcc caccagttac 180
ttcaatgggc ttggaacacc cagctgtgca agcctatagg ctacaacaag caattgcggc 240
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acaaaccatc gcaacgcaac agcaacaaca attcctacca gcactgagcc acctagccat 360
ggtgaaccct gccgcctact tgcaacagca gttgcttgca tcaaaccac ttgctctggc 420
aaacgtagtt gcaaaccagc cacaacaaca gctgcaacag tttctgccag cgctcagtca 480
actagccatg gtgaaccctg ccgcctacct acaacagcaa caactgcttt catctagccc 540

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gctcgtgtg gccaatgcac ctacatacct gcaacaacaa ttgttgcaac agattgtacc 600
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<210> 12248

<211> 606

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-098-Q1-N6-A1

<400> 12248

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actttattat tgaattacaa ctaataatca atctaaaaga gggcaccacc aatgatgtgt 120
tggttgtagg aggctgctgg gtttgtcaaa gcaagttgga caaagggcaa caattgttgt 180
agttgtaaga gggttgcggg gttagccgca aactgcttgt agaaaggcag caactgttgc 240
tgtgtcaaga aggaagcacg acttgctgca gctagctcgc taaatggcag tagtatttgc 300
tgctgcaa at aagcagcggg gttcagtgcg gccaatgggt taaatggaag aagttgttgt 360
tgctgagagt aggcagtagc tagctggcta aatggtaata gttgttgctg caaataagca 420
gcagggttca gtgtagacag ttggttgaat ggaagaaatt gttgttgctg agagtaggga 480
gaaaggtttg ccagagctac ttggttgatc acaggtagca cgagttgctg cagctgttgt 540
gccctgatgg tttgtaccaa tgactgcacc aaagataggc tgggtgattgt tgaaacacaa 600
ggccat 606

<210> 12249

<211> 587

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-098-Q1-N6-A12

<400> 12249

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ttattattga actataactc ataagaaatc taaaagaggg caccaccaat gatgggttgt 120
tggtagaacg ctgctgggtt tgtcaaagca agttgggtga atggcagcaa ttgttgcagt 180
tgtaagaggg tgccagcgtt aggcgcagcg tgctggtaga acggcaacaa ctgtgggttgt 240

atcaagaagg tagcagggct cacaccagct agctggctga atggtagtag ttgttgctgc 300
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 gctagcacia gttgttgtag ttgttggtgcc ctgatgtttt gtgccaataa atgcacaaaa 540
 ggtaactgat gtaatagggc tgatgattgt tggaggaaca aggtgat 587

<210> 12250

<211> 550

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-098-Q1-N6-A2

<400> 12250

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 actggactca ggtgggggtga gtaaagattg tacagatcag cgtgctccaa acttggttga 180
 tgcgctgctg tcacattttg aagtgcggca acagctcgaa ctggatagtc ttaaagcaaa 240
 gagcacgggc attgccctgc ctaatttntt cacactaagc cgggtgtttca gatgattttg 300
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 acattcttga ctggaaaata ggcagatctg taagccatgt gatctctttc acacaatggg 480
 ggatgcttct gacgcagatg cattttcaag tggagagaag aaattaactt tttcttgagg 540
 gtaaatgcaa 550

<210> 12251

<211> 295

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-098-Q1-N6-A4

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 gaagtagttg gaaatggttt atttgaagaa ttatggaata ttatggggga aaaaaaaaaa 120
 aagcttaatt ttaaattata tttttggtgg gtgtgggggg gatnaaaaat taataantnt 180
 aaaattatca aagaactaaa taatattaag gtgttagggg agaagatagg aaaatttatt 240
 gatggggggtt aagaatatgt aaatgtttta tggtaggggg tttgttttaa taaag 295

<210> 12252

<211> 536

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-098-Q1-N6-A5

<400> 12252

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 aaaaaaagaa aaanaaaaaa aaaaaaaaaa aaaaaaaaaa aaggtttcgc tgggaaaaaa 120
 ntntnttna tanaaggttt ttngaaaaa aaaaaaaaat tggataaagg ggaaaaattg 180
 aaaaaaaaaa aaaaaggttg aagagaaaaa aaaaaaaatg gttaaaaaaa gaaaaaata 240
 aaaatggaaa aaaaaaaaaa aaaaattggt gaaaaaaagt aaaaaaaag aaaaaataaa 300
 aaatggaaaa aaaaaaaaaa gaagaaaaaa agaggaaaaa aagtaaaaaa taaaaaagat 360
 aaaagaaaaa gaagaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaagag 420
 taaaaaaaaa aaaaaagaaa aaaaaataa aaaaaaaaaa aaagaaagaa aataaaaaaa 480
 taaaaaataa gataaaaaaa aagaaaagaa aaaannataa aaataaataa taagag 536

<210> 12253

<211> 266

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-098-Q1-N6-A6

<400> 12253

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aaaaaaaaaa aaaaaaaaaa aaagaaaaaa aaaaaaaaaa aaaaaataat ataaaaaaaa 180
 aaaaaaanaa aaaaaaataa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa ataaaaataa taanaa 266

<210> 12254
 <211> 457
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-098-Q1-N6-A7
 <400> 12254

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 attacaactt attacccaac caaaattttt gtgggtcgcg gggggggcct tcccaaaagg 180
 ctcttgggtt tgtaaaaaca agttggacaa agggccccc cgggcgcat tttaaaagg 240
 ttgctgggtt aaccacaaac cgctggtaga accgaagccc ttgttcttgt tccaaaaagg 300
 aaacggggct ttttttagct agcttgccca atggaagtat ttttttctgg tcgaaataaa 360
 caaaggggtt caatgccgcc cattggttaa atggaaaaaa tttttgcttg tgagaatagg 420
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<210> 12255
 <211> 406
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-098-Q1-N6-B1
 <400> 12255

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 gggtttgtga aggggagggg gttgaatgga agaaattggt gaagttgtaa gagggtgcca 180
 gagttaggcg cagggatgat gtaaaaagga aacaactgtg gttgtgtaaa gaaggtagaa 240
 ggggtaaaag gagntagggt gatgaatggt agtagatggt gttgatgtaa ataagcagga 300

gagttaaatg gtgaaagttg gttgaatgga aaaaaaggtg ggggtaggaa aaaaataagt 360
gggtgaatgg aacatgtagg tgatggaaat aaaaaggagg ttgaat 406

<210> 12256

<211> 461

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-098-Q1-N6-B10

<400> 12256

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accaatggtg ggcggttgca ataaggtggg ggtgtggggg gaaagcatgt tggctaaatg 180
gtagcaattg ttgttgttgt aagaaggcaa caatgtttgc cacattctgt gggtagaatg 240
gtagcaattg ttgctgttgc aagaaggcat taatgtttcc cacaacttgt gggtaaaatg 300
gcaacaaatg ttgttgtctc aagaaagcaa caatgtttgc cacagcttgc agatggaatg 360
gcagaagctg ttgttgcagt aagaaggcat aagggctccc gacaagttgg ttaaatggga 420
gtagctgctg tgccctgccag tgagaagcag ggggtcaccc c 461

<210> 12257

<211> 517

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-098-Q1-N6-B2

<400> 12257

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agctatgtag ttgaaagact aatcaacacg cagtttaacc atgagcaagc tttgtttaat 120
tattacaggc tacgagtact tattcaggca gatcactctg aggttgtgcc tactgttggg 180
cgctgccagc ttgaccttgt tggtagctgc cactgccagc aggagtaagc acagccagct 240
catgcttccct accgttcttg agctctgcag ctctctccat ggagatggca tacgagctgg 300
cgatgacggc ggccggcaag tcgctcagga cggagttctt cccggcgacg tggctgacca 360

tggtgtcagg gttcgtctcg aaggcgatgt actggaagcc ttctccctgc gccttgggtg 420
cgacgaggta gccctggggt accatgagca gctgccccgc acggagcacg tcgtcnaaca 480
ccgtggtcgc gttgtcgctg gcgacctgga cccttgc 517

<210> 12258

<211> 263

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-098-Q1-N6-B3

<400> 12258

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aataaaaaat aaaaaaaaga aaaaaaaaaa agaaagaaag aaaaaaaaaa aaaaagaaaa 120
aaaaaaaaaa aagaaaaaaa aaaaaatatg aaaaaaagaa aaaaaaaaaa agaaaaaaaa 180
aaaaaaaaata agaaataaaa aaaaaaaaaa aaaagaaaaa aaataagaaa atatgaaaaa 240
tcaaaaaaac cccccccccc ccc 263

<210> 12259

<211> 113

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-098-Q1-N6-B5

<400> 12259

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gaaatattag acaaaaaaatt tattattgaa ttataagtga taagaaattt aaa 113

<210> 12260

<211> 534

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-098-Q1-N6-B7

<400> 12260

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tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120

taaaaaaatt gaaaaaaaaa ctttttttggg ttgttggggc caaaaaaaaa cccaaaaaac 180
 ttttttttta aaaaacacaa aaaaaccaac taaaaaaggg gcccccccaa aaattttttt 240
 ttgaaaaaag ggttttgggt tttaaaaaaa aagtgggaaa aagggcacaaa ccccttccac 300
 ttaaaaaagg ggggggggggt aacccaaaaac actttgaaaa aaaaaaaccc attttttttt 360
 aaaaaaaaaa aaaaaggggt tttttaacct tttcccccca caagtgtaaa tttttttttt 420
 tgaaaaaaaa aaaaaggggg taaagctcgg ccccatTTTA aaaaaaaaaa aaaatacggt 480
 cttctaaaaa aaacacacac ttaactgtaa aaaataacaa aattttttgt ttct 534

<210> 12261

<211> 216

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-098-Q1-N6-B9

<400> 12261

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 aaaaaaaaaa aaaggaaaaa aaaaaaaaaa aaaaaaaaaa aaaaggaaaa aacaagaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaagaaa accaaaacaa aaaaaaaaaa ccaacaccga 180
 gggggggggg gcccaaccacc aaaaaaaaaa cacaca 216

<210> 12262

<211> 446

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-098-Q1-N6-C1

<400> 12262

gttttttaaa aaaaaaaagt gatttgttta ttntgggaag gaaaaaatga gacaaaaaat 60
 ttattattga gatataagt ataagaaatg taaaagaggg caccaccaat gatgggttgt 120
 tggtaaaacg ctgttgggtg ggggggggaa gttgggtgaa tgggagaaat tgttgcagtt 180
 gtaagagggt gaaagagtta ggggcagagt gctggtagaa cggaacaac tgggggttga 240
 ttaagaaggt agnaggggta agacgagcta gctgggtgaa tgggagtagt tgttggtgat 300

ggaaataagc aggagagtta aatgctgnca gttggttgaa tggaagaaat tgatgggggt 360
 agggagaagg tagatggctg aatgggagtt gttattggtg gaaataagaa gcagagttga 420
 atgcagntag ttggttgaat gggaag 446

<210> 12263
 <211> 576
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-098-Q1-N6-C12
 <400> 12263

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 aaaatgtgga cagtgaactc acattgaaga ggatgaaggg gaaggggggg cgacaatgtg 120
 aggatggaaa actaaaaacg gcacacgaat ctattaaatc atttctcttt gcattgataa 180
 tatactcttct ataggaagtc gcattccaac tagtgccact agagaacatc gaggcggaaa 240
 tgaaaagggt gaggaacata acaagcctct tcccttagg cttctcgttc ctgccttcgc 300
 cagggtacat tctcatgca ttgtcgagaa tccctccct acagctcctc cttaaagtatc 360
 atcgtctaac tctaagcttg caccggaatt ctgctaggag cgctatatga tccgatgacc 420
 attcaggaga aggaagagct gtgtcttttc tcaagctatc ttcattccaac agctccaata 480
 atgactctac agtcaatgaa tccgtgtgt aaaatatgta atctagggtg ccagtaaaat 540
 cccttgtgca atttgtgaac aatggctcat ttgtcc 576

<210> 12264
 <211> 607
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-098-Q1-N6-C2
 <400> 12264

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 tctctaactt tttattactg ganaagttgc acatatcagt atgagaactt tattattaca 120
 gtataaagca taaaaaatc tagaagatgg caccaccaat ggtgggctgc tgcaataagg 180
 gggggggggg cggcaaagca agttggttaa atggcagcaa ttgttgttgt tgtaagaagg 240

cgacattggtt tgccacatcc tgtgggtaga atggtagcaa ctgttgctgt tgcaagaagg 300
 cgttaatggtt tcccacaacc tgtgggtaaa atggcagcaa ttgttggtgt tgttgcaaga 360
 aagcagcaat gtttgccaca acttgtagat ggaatggaag caactgttgc tgcagtaaga 420
 aggcagcagg gctcctgaca agttgggtga atggtagtag ctgttggtgc tgcaagtaag 480
 cagcaggggtt caccacagct agttgattga atggaagaaa tgttggtgct ggaggtaagc 540
 agcaagggtt gctgcaacta cttgattgat tgttggaagc aactgttggt gtagttgttg 600
 tgctgcg 607

<210> 12265
 <211> 439
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-098-Q1-N6-C4
 <400> 12265

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 acttgaccag gcaatgcttt cccttgctaa cgagaatggg ccaatgggtt gggatctgga 180
 ccaccaacga ctttgggtc tccaaaactt ttccggggag ggttgcggtt gctgcttatg 240
 ctagcactca cagcagcagg ggcctgtttg gttccgcct tgggttcttg aagctttttt 300
 ttgggttcac caaaaccctg gagctttttt aggatagcaa ccacagcgtc cataggcggc 360
 ctcatthta cttcgttaga taggcattcc aaagcaaggg cagcaattgt ttgggcccc 420
 ttcaaattgt attgacctt 439

<210> 12266
 <211> 309
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-098-Q1-N6-C6
 <400> 12266

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gtaatgttta aaaaaatttt attaaatatt taggtaaaaa aaattaaatt attttttttg 120
 caagtttttt ttttaaaaaa aaaatttttt ttatttggtta aaatttttat tattaatata 180
 agtaatttaa ttttattttt ttaaaattaa aaataattaa aaattatttt ttttttataa 240
 aaaataaaaa gaaaaatttt tctttttttt gttttttttt aaaaaataa ttgtaaaaaa 300
 aattaaaaa 309

<210> 12267

<211> 518

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-098-Q1-N6-C7

<400> 12267

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 ttcaattatc tttccctttt tctcttttag ggaaagtgtg gccagcttac aaataacacc 180
 ttttaaagca taaaaataaa actagatcac gcttgtgttt gtgtgcccga gttaccgaca 240
 gagaactagc gattctgcac ataaacaacc aagtcgtcta tcatttttaa gcagcatcag 300
 tgtcccctgt ggatttggtg tactctggct taagctcatg agttccctgg tttggctctc 360
 gtttattata cacacagaga tcgttcaata tctccttcaa aaattgctct ggctggtcag 420
 ttttttacac cagcgccctt agtgcccaat tgggttgccct ttcaaaaagc ttgaatataa 480
 tgttttccat ctccgtacga tccctaccag ttcttttg 518

<210> 12268

<211> 631

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-098-Q1-N6-C8

<400> 12268

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 aggaaacaca cgtcgggatg agggcaccat tatcgagtac atctcatatg taatctaaaa 120
 gatggcacct ccaacgatgg gttgctgcct gggggggggg ggattcatca aagagaactg 180

gttgatggc agcaattggt gctgctgtag gaaggcggcg accaatgggt tagccactac 240
 caatggatta agtaactggt gtcgctgttg taggtacgca gcagagttcg acagagtcag 300
 ttggttgaat ggaagcagct gttgcaagta ggcaacaggg ttgcccacag ctagttgagt 360
 cagagctggt acaatctggt gcaacaattg ttgttgacag tatgtagggt cattgcccac 420
 agcgagcggg ctagatgaaa gcagttgttg ttgtgttacg taggcggcag gggtcaccat 480
 ggctagttga ctgagcgttg gcagaaactg ttgtagctgt tgttgctgct ggtttgcaac 540
 tacgttcgcc agaacaagtg gggttgatgc aagcagttgc tcttgcaagt aggcggcagg 600
 gttcaccatg gctagggggc tcagagctgg t 631

<210> 12269
 <211> 330
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-098-Q1-N6-C9
 <400> 12269

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 tttttttttt tttttttttt ttttttttcc cggagaaaac ccaaaccaac aaattgatta 120
 tttcaaggaa ccccatcccc cttttggggg gggggggggg gggccccccc acctccaacc 180
 aaaaaggggg ccccccaag gagggggggc cccccccccc gggcgggggc cacaaaaaaa 240
 accgggtgcg cgggccccac cggccccccc tctgggaggg ccccccccaa ggggctcccc 300
 cccctgggg gataaagggg ggggggcccc 330

<210> 12270
 <211> 611
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-098-Q1-N6-D1
 <400> 12270

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 atcgagtaca tctcatatgt aatctaaaag atggcacctc caacgatggg ttgctgcctc 120
 gacaagacag gattcatcaa agagaactgg ttgtatggca gcaattgttg ctgctgtagg 180

aaggcggcga ccaatggggtt agccactacc aatggattaa gtaactgttg tcgctgttgt 240
aggtacgcag cagagttcga cagagtcagt tggttgaatg gaagcagctg ttgcaagtag 300
gcaacagggt ttgccacagc tagttgagtc agagctggta caatctgttg caacaattgt 360
tgttgcaggt atgtaggtgc attgcccaca gcgagcgggc tagatgaaag cagttgttgt 420
tgttgtacgt aggcggcagg gttcaccatg gctagttgac tgagcgttgg cagaaactgt 480
tgtagctgtt gttgttgctg gtttgcaact acgttcgcca gagcaagtgg gttggatgca 540
agcagctgct cttgcaagta ggcggcaggg ttcaccatgg ctaggtggct cagtgcctgg 600
aggaactgtt g 611

<210> 12271
<211> 511
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-098-Q1-N6-D11
<400> 12271

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tgcagcaatg gcctcaacaa cgacatgcac acctcacacc aagaaaaccc tcagttttaa 120
gcatgaaaca gtgttgggaa gtgtgtacga tagctcgaga aaagagacgg aactgtggct 180
tttatgagcg ctgctactaa tactcttcac agagcatggc tctgtcatag tagtattatt 240
aatcaccaga tgcaccaaca gcaggcgatc cggctgccaa cgagcagagg caccctcaga 300
caagcacctg ggctgcagct agcctagcga tcgggacctt gaaaggggag caagaaacgt 360
aatccagccc agtcttggcg aagaaagcac ccgatgaagg ctctccacca tgttctccac 420
aaatgcccac cttcaagtta ggcctagctt tgcgggccct ctctgtcgca agcttaacca 480
gctcgcccac tcctcttttg gcgcgaaccc t 511

<210> 12272
<211> 166
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-098-Q1-N6-D12
<400> 12272

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tattgaatta caactaataa gccatctaaa agtagggcac cacctatgat gtgtcgcgcg 120
gtaggaggcc gctcgggctg gcaaagcaag ttgcacaaag ggcaac 166

<210> 12273
<211> 610
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-098-Q1-N6-D3

<400> 12273

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atatccaaaa ccaaaactca aacctcgcaa gggagtaaag tatatatatg ggggccattg 120
cttcttacac aaccagaaat gcaagtttta ggggggggggt ggcgagtcaa cctggacccc 180
ctaccctga gtgaagaata ctgcatccag agatgggtgat tttgttagtt caaaatgtgt 240
agctgccctc aggcaaaaat ctcatcttac catcatttgt tgagtgggtg cggccccctct 300
ggttcgcattg gtctccacac tgtaccagaa ggttcatoca tcagggcgat gcccttggtg 360
gcaaggtttt tcttgattcc atcagatata tcaaactggt tattcttctt tgcaacgttt 420
ctctgctcaa tctgctcttg caatttttct tcagtcagcc ccgctctctt tagtgctttg 480
tccttcaatt gcttcagtac ctctgccaaa gatgaagatg gcatcagacc aagtatagac 540
agttttatttt taagtcttat ttccagtgca atcagagctt gaataataatg ttctggctgt 600
ttttgcaatt 610

<210> 12274
<211> 480
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-098-Q1-N6-D4

<400> 12274

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catatgttgg tccaaagctt ttcttccaat atgattccag tgtaacccaa cattaaattt 120
taaaaaatat tatgggtcac aagggtggcct tgcttttgtt aaaaaatang taaactttga 180

aggctttttac taaggcagat aaagaccctg gataagtgga tatagaatcc tgggtgaatag 240
tgaactgatt ggtctgtctt ttccatttct ttttccttga tggatagccc aacaaaatga 300
atcggaatth taaagacagt ttaatcttga tttgcttcta aacaagctga aatatttgat 360
gaattgtact tcggttgatg ttcataatga aatgccaagt ggttaaataa aattgtaaaa 420
attaatgcag agggagattg gcagggtttt tgataactaa acgttctgca caccaatttt 480

<210> 12275

<211> 585

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-098-Q1-N6-D6

<400> 12275

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aagcaggtga cgatggtaaa cagaatgcc cttatgaagt aagcctaaaa accggaacaa 120
cagttcatga cttcagacgg ggggggagct ggtatggccc tatatatgcc ttaacagcca 180
tgcccttacc ttacctctgt attatatttg taaatccatt ggtctcgtgc cttataaacc 240
atatggcatc aagcagcagg aaccttcctt ccatcttcaa tgaagaaaat ggccgactca 300
ggtacatcag gccatgtatc tgtaatgaac tccacaatat catatgagat gtcccttctg 360
acgtcgattt gctccttctc cgtagggccc ttaacaacag aagctccggt tgcaaacttc 420
ttcccaagct tcttcgaagc atcactaagc ttacaccaa acaattcaag ccccttcacc 480
acagtaacac atttgcgctt gttacggaca atcttctcaa tgaccacttc ttgcttctcc 540
tttttcttga gcttaccacc aggcaggcgt ttcgcctctt ggggc 585

<210> 12276

<211> 77

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-098-Q1-N6-D7

<400> 12276

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ttcagtgcc gtcaatc 77

<210> 12277
 <211> 585
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-098-Q1-N6-D8

<400> 12277

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agttggttga atggggggag gggggggagt tgtaagaggg tgccagcggt aggcgcaacg  180
tgctggtaga acggcaacaa ctgtggttgt gtcaagaagg tagcagggct cacaccagct  240
agctggctga atggtagtag ttgttctctc tgtaaataag caggagagtt caatgctgct  300
agttcggtga atggaagaaa ttgctggggg taggcagcag gtagctggct gaatggtagt  360
tggtgttgtt gcaaataaga agcagagttc aatgaacctt gttggttgaa tggaagaaac  420
tgctgttgct gagagtaggc agcaaggttt gctagcacia gttgtttagt ttgttgtgcc  480
ctgatgtttt gtgccataaa atgcacccaa ggtaactgtt gtaatagggc tgatgattgt  540
tggaggaacc aagggtgataa aggtaagatg ccagctgcga ttgcc                               585
  
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<210> 12278
 <211> 108
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-098-Q1-N6-D9

<400> 12278

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aatgatgggt tgttggcgaa acgctgttgg gtttgacaaa taatgttg                               108
  
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<210> 12279
 <211> 553
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-098-Q1-N6-E1

<400> 12279

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 aacactgctg ggttgggcaa agcaagttgg ttgaatggca gcaattgttg cagttgtaag 180
 aggggtgccag cgttaggcgc aacgtgctgg tagaacggca acaactgtgg ttgtgtcaag 240
 aaggtagcag ggctcacacc agctagctgg ctgaatggta gtagttgttg ctgctgtaaa 300
 taagcaggag agttcaatgc tgctagtggg ttgaatggaa gaaattgctg ggggtaggca 360
 gcaggtagct ggctgaatgg tagttgttgt tgttgcaa atagaagcaga gttcaatgaa 420
 cctagttagt tgaatggaag aaactgctgt tgctgagagt aggcagcaag gtttgctagc 480
 acaagttggt gtagttgttg tgcctgatg ttttgtgcca ataatgcac caaagtaact 540
 gttgtaatag ggc 553

<210> 12280
 <211> 321
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-098-Q1-N6-E11
 <400> 12280

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 aatctaaaaa aggcacctcc aacaattggt tgttgggggg ggggggcagg gttcatcaaa 180
 gagaactggc tgtatggaag caattgttgc tgctgtagga aggcagtgc caatgggtta 240
 ggcactgata gtggattaag taactgctgt cgctgttgtt ggtactccac acagatcgac 300
 acagtcagtt ggttgaatgg g 321

<210> 12281
 <211> 362
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-098-Q1-N6-E7
 <400> 12281

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tttttttttt ttttttttta atagggttta aaaatttaaat cggtagaagt aaaataaaat 120
 taaaattggc gttaaaatta tacatttggt tgtaaggag cccttttaaa aaacctcgcc 180
 gtattaatac taacaaaacg atgttcaaaa gttagccttg aaattaaatt tattcaaagg 240
 gattggttga aatttggggc ttaattttca ctgacaaaat gaaaaaggga ggtaattaat 300
 taacttaaca ggaggttttg ttttaagggtc taaaaaaagc ctggtgggga aaggcgaaaa 360
 tt 362

<210> 12282

<211> 526

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-098-Q1-N6-E8

<400> 12282

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 aggcaacact ggggaaagga aaaccagcat attocacaaa agttatctga cgggcacagt 120
 tgggtgagctt ttcattcagg ctgatctgag tggagtgggg tttttgatca cggcgcttca 180
 gcagattcaa aagttgaacc tccctactga tacacaagtt gaacagagtt gccagatcat 240
 tctcatcagc cccgttgaga ttgggaccag aggcagcatt agcttccact tgatgagcca 300
 atacttcacg agaattgcgc tcataatatt cttggaggta agttttgtat aggggccaag 360
 aattcacagg acagtaaggc agtattgaat cccatcccca agctttttcc aaaagagctg 420
 ggtatttaac tatttacaat ggtggttggt gcggaggttc accatgcttt ctgtattttt 480
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<210> 12283

<211> 543

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-098-Q1-N6-F10

<400> 12283

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 tcgtcttact gcattattac atatatagat agagagggat ggatagagga gatttcccaa 120

atatcatgaa tcagtagtag ggcggaatgg cagcggagac cccacagggg ttggtgcggt 180
 agctgggcag ctggtactgg tactggtaga gtccacccat ggccggcatg ttctgcgcca 240
 tcatcatggc catgggggtg agaccctggg ctgccagcag ctgctgctgc tgctgcatca 300
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 gcagctgctg cgcgacggac tgcacgtcca tcactctcat ctgctgctgg cagcactgtt 420
 gccggagcgg ctggtacatg gcgctcgtct gccacacccc ggcgtagtag ggcgcccccg 480
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 cca 543

<210> 12284
 <211> 407
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-098-Q1-N6-F11
 <400> 12284

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 aacggaataa caatatttct ctcatagatt caaagcagaa aatacaattg aatatgctga 120
 caggcctcct tgcttgagct ttcaaaaactg tggtcacctg aaagatgtgg acctaagcct 180
 ttttcttcga tgacttcttg gggggtttct tctggggctt aagcttatca gatttcgatg 240
 acatgccttt ctctttcctt gtctgcttct cctttttcac cttgtacatt gaaattgcct 300
 tggcggcatc aagtggatca tcagtagttt ctggcaagtc gagagttag gattatgaca 360
 ttccgctgtt actccaggct gccattccc ttccctcgga caactgg 407

<210> 12285
 <211> 568
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-098-Q1-N6-F2
 <400> 12285

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aaccgatcga tatgacgatt atactcctat ttattagcac cagctatata tagccatgtc 120
tggagtcttg agtctggact agcaagcaac cgagatcgat gcatgataca gagatagatt 180
catcggtttg catgagcatg gcttgttgcc agccactatg ttacaccac cacgcatgta 240
caaagttctg tatcgtcgca tcgcctccgc ctgatgatga tcgatcagtg cagcgccgtc 300
aggacagtag acccttccac caccttgaaa gtggcaccgc agatctcttc ttcgtcggcg 360
gggacagcgg tgaccttggtg cttgggggttc tcgtagcact tgagccctcc gagggcggtg 420
gagtagaagc agccttgcgg gaacggcgcg agcgacttgc cgcgatgagcc tttgagcatg 480
tcgatgtcgt cggagaaggc gacgcagccg tcggcggtga tccccagaa gagcggcacc 540
ctgccctcgg ggtcagatgc taccagca 568

<210> 12286
<211> 56
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-098-Q1-N6-F5

<400> 12286

ccctggtaat tctttttttt tccttaaacc ttaccatttt gggtttgatg ggggct 56

<210> 12287
<211> 224
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-098-Q1-N6-F6

<400> 12287

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actttattat tgaactataa ctcataagaa atctaaaaga gggcaccacc aatgatgggt 120
tgttggtaga acgctgctgg gtttgtgagg gcgttggggg gaactctgct tcttatttgc 180
aacaacaaca actaccattc agccagctac ctgctgccta cccc 224

<210> 12288
<211> 582
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-098-Q1-N6-F7

<400> 12288

aatctaaaaa tgtactttct tatttctggg aagccacaaa catcagacaa aaactttatt 60
attgaactat aactcataag aaatctaaaa gagggcacca ccaatgatgg gttgttggtta 120
gaatgctgtt gggtttgtca aagcaagttg gttgaatggc agcaattgtt gcagttgtaa 180
gaggggtgcca gcgttaggcg cagcgtgctg gtagaacggc aacaattgtg gttgtgtcaa 240
gaaggtagca gggctcacac cagctagctg gctgaatggg agtagttgtt gctgctgtaa 300
ataagcagga gagttcaaag ctgtcagttg gttgaatgga agaaattgct gggggtaggc 360
agcagatagc tggctgaatg gtagttgttg ttgttgcaaa taagaagcag agttcaatgc 420
agctagttgg ttgaatggaa gaaactgttg ttgctgagag taggcagcaa ggtttgctag 480
cacaagttgt tgtagttgtt gtgccctgat gttttgtgcc aataaatgca ccaaaggtaa 540
ctgctgtaat agggctgatg attgttggag gaacaagggtg at 582

<210> 12289

<211> 475

<212> DNA

<213> Zea mays

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<400> 12289

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aattacaact aataagcaat ctaaaagagg gcacccccaa tgatgtgttg ttgggggaag 120
gctgctgggt ttgtcaaagc aagttggaca aagggaaca actgttgcag ttgtaagagg 180
gttgcggggt tagccacaaa ctgctggtag aacggaagca cttgttgttg tgtcaaaaag 240
gaagcggggc ttgttggtacc tagctggcca aatggtagta ggatttgctg ctggaaataa 300
gcagaggggt tcagtgcggc caattgggta aatggaaaaa attgttgctg ctgaaagtag 360
gcaataacta gctggctgaa tggtaatagt tgttgttgct gcaaataaac agcagggttc 420
aatataaaca gttggttgaa tggaagaaat tgtttctgct gacagtaggg ggaaa 475

<210> 12290

<211> 510

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-098-Q1-N6-G1

<400> 12290

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gggggggcct ttattgggta acaccggtat atgggtataa cgggtaggga gacacaattc 120

ttcaattgca aaccccccta atggcattgc tgctgcaggg gttatTTTgg ggggatgagg 180

gggccaagcc ccacattgag gggggggatt gggctgctgt caaaattgcc cccccacttt 240

ggggagcttg gggagaacca cataactcac aggggggggg ggggtgctcc ccctggatta 300

tggattgaac catgttgtaa attgcttggg gaatgtattg gggctcaatc tgcctaaaaa 360

atgacaacat tggtgctgca ataccggca gctacttggg tgtatcaaac ctgattggag 420

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gagctactgg tataggagtt atagctgccc 510

<210> 12291

<211> 78

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-098-Q1-N6-G10

<400> 12291

ggactacaac aacccatcat tggtggtgcc ctcttttaga ttgcttatga gtttgcataa 60

gctaataaat tgTTTTgt 78

<210> 12292

<211> 553

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-098-Q1-N6-G11

<400> 12292

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gagcatgctg tacatccgcc tctccgatca aagagagacg catacagcat atagtactgc 120

actgcactgc atgccccag acacaagcat gcacacacaa agcacaacac ataaacgact 180

agctagagct atcgcgggcga ccgagactct acggcagcgt acgtagcagc agccaccgcc 240
 ttttaagggcc atatgccgcc gcgcccgcag tggttcaagg aggtcgcgcg cgcgggtccgc 300
 tcgagtgtgg ttctttctctc aagacccttg cgcttggtcg atgcggtgct gtgctgcac 360
 cttgatgtcg cgggccttgg acgccagcct cgccctggcg tggccagct ggtcggcgcc 420
 cggcgggtgc ttgcccgtca ggtacttgta catccaggag aacacggaca gcgcancgac 480
 gccgaggccg ccggagggtga cgaaccggc cgccatgagc gccagcgca tggcggcccg 540
 caccagcacc ggg 553

<210> 12293
 <211> 617
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-098-Q1-N6-G2
 <400> 12293

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 gatgggttgc tgccctcgaca ggacagggtt tatcaaagag aactggttgt atggcagcaa 180
 ttgttgctgc tgtaggaagg cagcgaccaa tgggttagcc actgctagtg gattaagtaa 240
 ctgttgctgc tggtgtaggt acgcagcaga gtccgacata gtcagttggt tgaatggaag 300
 cagctgttgc aagtaggcag cagggtttgc cacaactagc tgagtcagag ctggtacaat 360
 ctgttgcaac aattgttgtt gcaggtatgt aggtgcattg gccacagcga gcgggctaga 420
 tgaaagcagt tggtgctggt gtaggtaggc ggcagggttc accatggcta gttgactgag 480
 cgctggcaga aactgttgca gctgttggtg tggctggttt gcaactacgt ttgccagagc 540
 aagtgggttt gatgcaagca actgctgttg caagtaggcg gcagggttca ccatggctag 600
 gtggctcagt gctggta 617

<210> 12294
 <211> 463
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-098-Q1-N6-G3

<400> 12294

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ggggggggcg gaaaaagggg gaaaaaaggc gcgggagggg aggaggggaa gcaggggggg 120
ggggaacggg gagagggcgc aacgcccccc ccccccgccc cccccccccc ccccgggcca 180
ggcccccccc cccccccccc ccacggaccc accccccccc ccggggcaaa ccccaaacc 240
ccccaacccc ccaaaacaaa ccagcccgaa gcaggaagtg gaaagcctgc cagcccaaa 300
gagagagcta actcacaaga aacgccctac ggcactgcc ccccaaacag cccaagagac 360
ctaccgcca cccgcaaaa agaaccgca aaaaccaag gagaggagt tcgcggaacg 420
ggcgcgcctc cgcgggggga caaaaaaacc cgaaggcgcg ggg 463

<210> 12295

<211> 597

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-098-Q1-N6-G6

<400> 12295

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cggtatgagg gcaccattgt cgagtacatc tcatatgtaa tctaaaagag gcacctccaa 120
cgatggggtg ctgcaaggca gggttcaggg gggggagact ggttgatgg cagcaattgt 180
tggtgctgct gcaggaaggt agcgaccaat gggttagcca ctgccaatgg attaagtaac 240
tggtgtcgct gttgtaggta cgcagcagag tttgacacag ccagttggtt gaatggaagc 300
aactggtgta agtaggcagc agggtttgcc acagctagct gagtcagagc tggtagaatt 360
tggtgcagca actggtgttg taggtacgta ggtgcattgc ccaccngag cgggctagat 420
gaaagtagtt gtaggtagac ggnagggttc accatggcta gttgactgag cactggcata 480
aactggtgca gctggtgttg ttgctggtat gcagttacgt tcgccagagc aagtggggtg 540
gatgcaagca gttgctgttg caagtaggtg acagggttca ccacgggtag gtggctc 597

<210> 12296

<211> 623

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-098-Q1-N6-G7

<400> 12296

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gaaacaatgt cggtatgagg gcaccattgt cgagtacatc tcatatgtaa tctaaaagat 120
ggcacctcca acgatgggtt gctgcagggg ggggggggac aaagagaact ggttgatatg 180
cagcaattgt tgttgctgct gcaggaaggt agcgaccaat gggttagcca ctgccaatgg 240
attaagtaac tgttgtcgtt gttgtaggta cgcagcagag tttgacacag ccagttgggt 300
gaatggaagc aactgttgta agtaggcagc agggtttgcc acagctagct gagtcagagc 360
tggtacaatt tgttgcagca actgttggtt taggtacgta ggtgcattgc ccaccgcgag 420
cgggctagat gaaagtagtt gtaggtagac ggcagggttc accatggcta gttgactgag 480
cactggcata aactgttgca gctgttggtt ttgctggtat gcagctacgt tcgccagagc 540
aagtgggttg gatgcaagca gctgctggtt caagtaagtg acagggttca ccacggctag 600
gtggctcaat gatggcagaa act 623

<210> 12297

<211> 609

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-098-Q1-N6-G8

<400> 12297

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cacaaacatc agataaaaaa ctttattatt gaactataac tcataagaaa tctaaaagag 120
ggcaccacca atgatgggtt gttggtgggg ggggtggggg tttgtcaaag caagttgggt 180
gaatggcagc aattgttgca gttgtaagag ggtgccagcg ttaggcgcaa cgtgctggta 240
gaacggcaac aactgtgggt gtgtcaagaa ggtagcaggg ctcacaccag ctagctggct 300
gaatggtagt agttgttgct gctgtaaata agcaggagag ttcaatgctg ctagttgggt 360
gaatggaaga aattgctggg ggtaggcagc aggtagctgg ctgaatggta gttgttggtt 420
ttgcaaataa gaagcagagt tcaatgaacc tagttgggtt aatggaagaa actgctggtt 480

ctgagagtag gcagcaaggt ttgctagcac aagttgttgt agttgttgtg ccctgatgtt 540
 ttgtgccaat aaatgcacca aaggtaactg ttgtaatagg gctgatgatt gttggaggaa 600
 caaggtgat 609

<210> 12298
 <211> 545
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-098-Q1-N6-H1
 <400> 12298

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 tttttttttt tttttggggg gggagggtt taatgggtact tgggggaccc gcataagatc 120
 ctgaattcaa aaacaaaata agagggttgt aagggggccc tggacaaggg acaagggggg 180
 ggacaaaaca cccccctgg gggggggggc catcacggtg gggaaccccc ttacccatgg 240
 ggggttacaaa cccatggggg ggcccccttac ctaccctcct aggagtatga gaatgatgct 300
 aaagtatcca acggggccaaa acaacaagaa gatgggtttt tctcctttaa aaaaaatgag 360
 cggggagggg cagtgaaccc ccttacacat gggtcaggac ctttttgaca aggcccttgc 420
 cctcaaagga atacccgagc ttttagtcat caacagcagc gttaaggga ttgagcttgg 480
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 tcttc 545

<210> 12299
 <211> 505
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-098-Q1-N6-H10
 <400> 12299

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 acatatcagc atgagaactt tattattaca gtataaatca gtaaaaaatc tagaagatgg 120
 caccaccaat ggtgggcggg tgcaataagg tgggtttgtt cggggaanca tgtttnctaa 180
 atgggtancaa ttgttgttgt tgtaagaagg caacaatgtt tgccacattc tgtgggtaga 240

atggttagcaa ttgttgctgt tgcaagaag cattaatggt tcccacaact tgtgggtaaa 300
atggcaacaa atgttggtgt gtgaagaaag caacaatggt tgccacagtt tgcagatgga 360
atggcagaag ctgttggtgc agtaagaag cataagggct cccgacaagt tggttaaatg 420
gtagtagctg ttgtggctgc aagtagatag cagggttcac cccagctagt tgattgaatg 480
gaagaaactg cgtgtgctgg aggta 505

<210> 12300

<211> 529

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-098-Q1-N6-H11

<400> 12300

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cggacgccac agtagggggc ggcacgtagg ggcgggcgcg cgccacggca tcacatgac 120
acatcttccc ctggggaggc gggcaggacg agccgggcga accctccacg cacttctcga 180
cgcactggtc caccgcctcc gccgcacgt gctgcatcag ccggtccttc tcctcgaagt 240
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gccggacgtc gacgtgctga ccttggccca gcgtcagctt ctcccttgatc gcgcccgctca 360
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ccgtctccct agccttgctca gcggcggtct gtgctgtggc tcgggacctg tccttggcct 480
cctgcgcggc ctccctgctg gggtcggtgt actcgccgcg cttctgcct 529

<210> 12301

<211> 573

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-098-Q1-N6-H2

<400> 12301

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catccaaaaa acttcattat tgaactataa ctcataagca atctaaaaga gggcaccacc 120
aatgatgggt tggttgtaga aactgttga gtttgtgggg ggggggtggt tgaatggcag 180

caattgttgc agttgtaaga ggggtgccagc gtttaggcata gcgtgcaggt agaacggcaa 240
 caactgttgt tgtgtcaaga aggcagcagg gctcacatca gctagctggc tgaatgggag 300
 tagttgttgc tgctgtaaat aagcagcaga gttcaatgct gctagttggc tgaatggaag 360
 aaattgctgg gggtaggcag caactagctg gctgaatggc aattgttgtt gcaaataagc 420
 agcagagttc aatgcagcca gttggttgaa tggaagaaac tgatgttgct gagagtatgc 480
 agcaaggttt gctagcacia gttgtttagt ttgttgtgcc ctgatgtttt gtgccaccaa 540
 atggacaaaa ggtaactgct gtaatagggc tga 573

<210> 12302
 <211> 407
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-098-Q1-N6-H4
 <400> 12302

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 taaagggggg gggttttatt gttaaaaggg gggggggggg gaaaaagttt gggtaaaaaa 180
 aattttttaa tggaaaaaac caaaaagggt ttgggggggg gggggggttt ttggggggga 240
 ggggggggaa aagcccccaa ttgggggggg gggtgggggt gtttaaaaaa atcccccccc 300
 attttggggg gggggggggg aaccaaaaaa aaaaaggggg gggggggggg gtcccccccg 360
 gggtgggggg gaaaccaatg ggaaaatggg tggggaaatg gtttggg 407

<210> 12303
 <211> 495
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-098-Q1-N6-H5
 <400> 12303

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tgtaacaaac taccacaggt nccatggggg cctcatgcac aaaaattacc gcagtaacag 180
 tgagaaaaca cccactgcat catctgccac ctgtctctgt ctcttgttc tctttaaccg 240
 ctcgatcgat ctcttattac ccttcacgtg ccgttttcac cgcacgatt caaccactcc 300
 gtgaagaccc caagcttttg aggggtctta ttaattaccc taacgaatca ataaataacc 360
 atatcaccac caatattttt tttactgtaa catntaagag ggcgaccact gtaactagcg 420
 cagcaaccaa tggagaaata ggaggggtggg caacagcgac gacgacacga catggatcga 480
 ggtgtggcta ccacc 495

<210> 12304

<211> 606

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-098-Q1-N6-H7

<400> 12304

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 atgtgttggtt ggtaggaggc cgctcggggg gggagagcaa gttggacaaa gggcaacaat 180
 tgttgtagtt gtaagagggt tgcgggggta gccgcaaact gctggtagaa aggcagcaac 240
 tgttgctgtg tcaagaagga agcacggttt gctgcagcta gctggctaaa tggtagtagt 300
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 tagggagaaa gggttgccag agctacttgg ttgatcacag gtagcagcag ttgctgcagc 540
 tgctgtgccc tgatggtttg taccaatgac tgcaccaaag atagggctgg cgattgttga 600
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<210> 12305

<211> 390

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-098-Q1-N6-H8

<400> 12305

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accctttttt ttctcggggg gggcgaaact ttaccttaaa nnttaccaat tttccctaaa 180
aaaaaaattt ttaaaacttt ttctaattat ttaaaaaaat tttttcttta taaaaatttt 240
tccctttaac aattttctaaa aatataaaaa tttaaaaaat aaaataaaaa aattttaaag 300
cctaataaat aaataaaata attttttattt atttaaatta aattatcttt atacaaataa 360
aaaaaattta atactttctt catttaataa 390

<210> 12306

<211> 575

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-099-Q1-N6-A1

<400> 12306

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aactttatta ttgaactata actcataaga aactaaaggg ggcaccacca atgatgggtt 120
gttggtagaa cactgctggg tttgtcaagg gggggggggg gaatggcagc aattgttgca 180
gttgtaagag ggtgccagcg ttaggcgcaa cgtgctggta gaacgggaac aactgtgggt 240
gtgtcaagaa ggtagcaggg ctacaccag ctagctggct gaatggtagt agttgttgct 300
gctgtaaata agcaggagag ttcaatgctg ctagttgggt gaatggaaga aattgctggg 360
ggtaggcagn aggtagctgg ctgaatggta gttgttggtt ttgcaaataa gaagcagagt 420
taaatgaacc tagttggttg aatggaagaa actgntgttg ctgagagtag gcagcaaggt 480
ttggtagcac aagttgttgt agttgttgtg cctgatggtt ttgtgccaat aaatgcacca 540
aaagtaactg ttgtaatagg gctgatgatt gttgg 575

<210> 12307

<211> 513

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-099-Q1-N6-A10

<400> 12307

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aaacttttatt attgaactat aactcataag aaatctaaaa gagggcacca ccaatgatgg 120
gttggttgga gaacgctgct nggtttgtgg attcgcttgg gtgaatnca ncaattgttg 180
canttgtaag aggggtgccag cgtagggcgc agcgtgctgg tagaacggca acaactgtgg 240
ttgtatcaag aaggtagcag ggctcacacc agctagctgg ctgaatggta gtagttgttg 300
ctgctgtaaa taagcaggag agttcaatgc tgccagtggg ttgaatggaa gaaattgctg 360
ggggtaggca gcaggtagct ggctgaatgg tagttgttgt tggtgcaaat aagaagcaga 420
gttcaatgca gctagttggt tgaatggaag aaactgctgt tgctgagagt aggcagcaag 480
gtttgctagc acaagttgtc cgaccctggg gtc 513

<210> 12308
<211> 119
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-099-Q1-N6-A11

<400> 12308

ttttggggcg ccccccttt ttttttctt tttttttcc ctttttattg cttttttttt 60
ttctttttct tttttgtct tnnngccct taatatTTTT tttttttccc cnttttttt 119

<210> 12309
<211> 488
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N6-A12

<400> 12309

gggggggtgt tttttaata aaattttttt tttttttttt tttttttttt tttttttttt 60
ttttttttt tttttttttt tttttttttt ttttatcggt ataaatctca atcaatatat 120
tgattttttt taggaaacac attttggggg tttgcggggg ttgtccaatc catctcattt 180

ttaatctaaa aaatggcacc tccaacccatg ggttgctgca aggcagggtt catcaaaaaa 240
 aactggttgt ttggcaacaa ttgttggtgc ttctgcagga aggtagcgac caatgggtta 300
 gccactgcca atggattaaa taactgttgt ccctgttgta ggtccccacc aaagtttgac 360
 acaaccagtt ggttgaatgg aaacaacttt ttttaagtagg cagcagggtt tgccacaact 420
 agctgagtca aagctggtac aatttggtgc aacaactggt gttgtaggta cctaggtgca 480
 ttgccac 488

<210> 12310
 <211> 617
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-099-Q1-N6-A2

 <400> 12310

gggggggggg ttttttaaaa aaaaaatttg ggggggttat atatataaaa ttttatattt 60
 taaaaaaaaa aaaaataaat aaaaatataa aattaaataa aaaaaaaaaa aataaaaaaa 120
 aaaaaaatta ataaaaaaaa aaatttttgg atttgaangg ggaaatanaa atttttatat 180
 taaattaaaa aaaaaaaaaa aaaaaaata aataaaaaa aaaaaaaaaa aaagaaaaaa 240
 aaaaaagata aaataaaaaa aaaataaaaa aaatgaaag aaaaaaaaaa agaaaaaaat 300
 aaaaagaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagaaag aaaataaaga 360
 aaaaaaaaat aaaaaaaaaa aaaaagaaaa aaaaaaaaga aaaaaaaaaa aaaataaaaa 420
 aaagtaatat taaaagaaa ataaaaataa aaaaaataa aaaaaaaaaa gaaaaaaa 480
 aagaaaaaaa aagaaacaaa aaaaaaaaag aaaaagaaa aaaaaaaaag gaagaaaaaa 540
 aaaaaataa aaataaaaag taaaaaaaaa gaaaaaaa acaaaaaaaa aataaaagaa 600
 aagaaaaaaa aaagaaa 617

<210> 12311
 <211> 206
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-099-Q1-N6-A3

<400> 12311

aaaaaaaaa attttttttt tttttttttt ttattttttt tttttttttt ttattttttt 60

tttttttttt tattttttta aaaaaaat tttttattt gaaaaatttt ttttttttaa 120

aaaaaat tttttggtga tgggggggaa aaaaaaat aaaaaattnt aaaaaaaaaa 180

aaaaaaaaa ataatatatt ttaaaa 206

<210> 12312

<211> 386

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-099-Q1-N6-A5

<400> 12312

gggggggggt ttcattaaaa tagttcattc aggtcattgc tcacactgac actgccaccc 60

atggtgatgc gtgacacatt attactcaat catcgccgct aaatgactca actagctagc 120

tattcttttt ctatactaca tttatggttt cgcanggggg gacaccgccg gcagcagcgt 180

aggggcatga agtaagatga tgcaggccga acatcgccgt aagttgctgc gctatgtggg 240

ccgtcaacag ccccgngacc tggccgtttt gcggttggtg ctgcatgatg gactggagga 300

ccaagccaaa tatcgcttgg taccgttgct gaggttacac ctgcctgagc tgggtggcaac 360

actgtgtggt gaactactgg cactga 386

<210> 12313

<211> 215

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N6-A6

<400> 12313

gggggtgttt ttttttacta gaaagtactt tcttatttct gggaagccac aaacatcatc 60

caaaaaactt cattattgaa gtataactca taagcaatct aaaagagggc accaccaatg 120

atgggttggt ggtggaacgc tttttggtgg gggggggggg ggtgttttaa tggcaacaat 180

tgccgcactt ataagagggt gccagcgtaa ggcgc 215

<210> 12314
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N6-A8

<400> 12314

acaattatta ttttttttta aatttatatt acaaacatca ttatatatttg acctttattg 60
tttttatacct ttatataact attttgtggtt ggggggcacc tttctttaat ttttaactcc 120
ttttatttta ttcttggtac tttctttatt ttcttttttt ttttttggtc aagccattca 180
tttattttta aacatttatt tttttaatta atttgtcacc tttctatatt ttatcttttc 240
tatatccttt tttctttatc ttttctttat ttctctttct tcttctttct ctttttatct 300
tttttttttt tttttttttt tttttttttt ttctcttttt tctttttttt tt 352

<210> 12315
<211> 596
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N6-A9

<400> 12315

gggggggggtg ttttagaaat gtactttctt atttctggga cgccacaaac atcatccaaa 60
aaacttcatt attgaactat aactcataag caatctaaaa gagggcacca ccaatgatgg 120
gttggttggtg gaacactggt gagtttggtg ggccgctggg gtgaatggca gcaattggtg 180
cagttgtaag aggggtgccag cgtaggcat agcgtgcagg tagaacggca acaactggtg 240
ttgtgtcaag aaggcagcag ggctcacatc agctagctgg ctgaatggta gtagttggtg 300
ctgctgtaaa taagcagcag agttcaatgc tgctagttgg ttgaatggaa gaaattgctg 360
ggggtaggca gcaactagct ggctgaatgg taattgttgt tgcaaataag cagcagagtt 420
caatgcagcc agttgggtga atggaagaaa ctgatgttgc tgagagtatg cagcaaggtt 480
tgctagcaca agttgttgta attgttgtgc cctgatgttt tgtgccccca aatggaccaa 540
aggtaactgc tgtaataagg ctgacggttg ttgggagaac aagggtgata atggta 596

<210> 12316
<211> 561

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-099-Q1-N6-B1
 <400> 12316

agaaatgtac tttcttattt ctgggacgcc acaaacaatca tccaaaaaac ttcattattg 60
 aactataact cataagcaat ctaaaagagg gcaccaccaa tgatggggtg ttggtagaac 120
 actgttgagt ttgtcaaagc aagggtggtg aatggcagca attgttgagc ttgtaagagg 180
 gtgccagcgt taggcatagc gtgcaggtag aacggcaaca actgttggtg tgtcaagaag 240
 gcagcagggc tcacatcagc tagctggctg aatggtagta gttgttgctg ctgtaaataa 300
 gcagcagagt tcaatgctgc tagttggtg aatggaagaa attgctgggg gtaggcagca 360
 actagctggc tgaatggtaa ttgttggtg aaataagcag cagagttcaa tgcagccagt 420
 tgggtgaatg gaagaaactg atgttgctga gagtatgcag caaggtttgc tagcacaagt 480
 tgttgtagtt gttgtgccct gatgttttgt gcccacaatg gaccaaagta actgctgtaa 540
 taaggctgac cggtggttga g 561

<210> 12317
 <211> 370
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-099-Q1-N6-B10
 <400> 12317

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 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
 tttttttttt tttttttttt tctggggggg gggggggggg ggtttttttt tattactctg 180
 attttttccc accgtctcca aaaaaaaccc cgccccccct taaaattgtt ccccccccaa 240
 tttttacccc aacctttccc ctcaacgtta gcgccccctt ttgggggggtt tttcttttta 300
 cccccccccc ctcaacaact tttctttccc tctcccaact tttaaaaccc cccccctta 360
 tcaccccccc 370

<210> 12318
 <211> 464

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-099-Q1-N6-B11

<400> 12318

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tacagggcaa tagtttacc atagagttc actaacatga tgtgtgattt tgacagaagg   120
ataacagggc atctggaaca tcacactgna tatgggggtcc gctgggagtg naacctctgt   180
aaagaatctt gaagaagccc atttctggca tcagcatctt caagcttcct ttgcagctct   240
cctatttccc cctgagattc agctagtgtt ttcattgattg catcattttg ctgcctttca   300
gatctcaacg aagtttccag tgctgccata ttttcttcat gtctctgtaa agaattctga   360
agaagcccat ttctggcatc aggatcttca agcttacttt ggaagtctac tatttcccc   420
tcgacttcac cttatggttt catgattggt taattttgct ggct                      464
  
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<210> 12319
 <211> 65
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-099-Q1-N6-B3

<400> 12319

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ggggggggggg gtgggtttttt tttgttttgg tggggggggg ggggtgcgtt ccgcgggggg   60
ggggg                                              65
  
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<210> 12320
 <211> 555
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-099-Q1-N6-B8

<400> 12320

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ggtgggtggtt tttttttttt ttttttttca cactgaattt gacagtttat cttcttcgaa   60
accaatttcg tcgtatcacg atttacaat gaaacacggt acacatttca gtgttcatga   120
aaactcaaaa gaacttcagc ggaaacgggg gggggggggg aacactgctg gaacatttac   180
  
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tgagagcgta cagatgaaca agagctatca actcttcagt ttattatgta ctgttgggct 240
 ttctggagggc agttgcgctc ccctttgtcg ttgagcaggg ttgcaattct gaagcaaaac 300
 tctaaaccat gaatgggaaa tttagaatth ttgatctact gtatgtatga acatattgtt 360
 gattcccatg ctgtctgaac aagaacaata gcatgcgagg aatcaactta tctgttcacc 420
 aattagatcg aggccaacgg caaggaatga catcccctgg aacagaagga agtagaaatg 480
 aatcccctga gcagacaaga ggctccgagt cccagccggt gtgcaggagc agagaaagag 540
 caagctcttt cttgt 555

<210> 12321
 <211> 596
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-099-Q1-N6-C11
 <400> 12321

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 catcagacaa aaaactttat tattgaacta taactcataa gaaatctaaa agagggcacc 120
 accaatgatg ggttgttggg agaattgtgt gggttttgtc aggggaagtt nnttgaatgg 180
 cagcaattgt tgcagttgta agagggtgcc agcgttaggc gcagcgtgct ggtagaacgg 240
 caacaattgt ggttgtgtca agaaggtagc agggctcaca ccagctagct ggctgaatgg 300
 tagtagttgt tgctgctgta aataagcagg agagttcaaa gctgtcagtt ggttgaatgg 360
 aagaaattgc tgggggtagg cagcagatag ctggctgaat ggtagttgtt gttgttgcaa 420
 ataagaagca gagttcaatg cacctagttg gttgaatgga agaaactgtt gttgctgaga 480
 gtaggcagca ggtttgctag cacaagttgt tgtagttgtt gtgcccctga tgttttgggc 540
 caataaatgc acccaagtaa ctgctggaat agggctgatg attgttggag aacaag 596

<210> 12322
 <211> 523
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-099-Q1-N6-C2

<400> 12322

gggggtgttt tagaatctgg aaagtaactt cttatttctg gttggccaca tacatcatcc 60

aaaaacttta ttattgaatt acaactaata agcaatctaa aagagggcac caccaatgat 120

gtgttggttg taggaggctg ctgggtgggg gggggcgagt tggacaaagg gcaacaattg 180

ttgtagttgt aagagggttg cggggttagc cgcaaactgc tggtagaaag gcagcaactg 240

ttgctgtgtc aagaaggaag cacggnttgc tgcagctagc tggctaaatg gtagtaatat 300

ttgctgtgtc aaataagcag cgaggttcag tgcggccaat tggttaaatg gaagaagttg 360

ttgttgatga gagtaggcag tagctagctg gctgaatggg aatagttggt gctgcaaata 420

agcagcaggg ttcagtgtag atagttgggt gaatggaaga aattgttggt gctgatagta 480

gggagaaagg tttgccagag ctacttggtt gcggaacgct ggg 523

<210> 12323

<211> 302

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-099-Q1-N6-C3

<400> 12323

ataaaaaaaaa aaaaaatttg tgtgttgaan tataatttat aaggaattta aaaaagggga 60

ccattaatga ttggttggtg gtaaaaaatt ggtgggtttg tgaaaacaag tttgtttaat 120

tttaaaaaatt ttttttgtgg gggggggggg ggaactttta gtacaatatg catgtagaaa 180

ggaaaaaaaaa gtttttgtgt taaaaagggg atatgggtta aagaaaatta ttgggttaat 240

ggtaagtaat tattgatttt gtaataaag attaaattaa atggtaaaaa tatgtttaat 300

gg 302

<210> 12324

<211> 585

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N6-C4

<400> 12324

gggggtggtt tttttttttt tattttcaca tgtgaaatct ggaaatgtaa cttcttattt 60

ctggttgccc acatacatca tccaaaaact ttattattga attacaacta ataagcaatc 120
 taaaagaggg caccaccaat gatgtgttgg ggggtgagggg cgctcgggtc gtcaaagcaa 180
 gttggacaaa gggcaacaat tgttgtagtt gtaagagggg tgccggggtta gccgcaaact 240
 gctggtaaaa aggcagcaac tgttgcctgtg tcaagaagga agcacgggtt gctgcagcta 300
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 attgggttaa tggaaaaagt tgttgttgct gaaagtaggc agtagctagc tggctgaatg 420
 gtaatagttg ttgctgcaaa taagcagcag gggttcagtgt aaacagttgg ttgaatggaa 480
 aaaattttgt tgctgaaagt agggagaaaa gtttgccaaa actacttggg tgatcacagg 540
 tagcaccagt tgctgcaact gttgtgccct gatggtttgt accaa 585

<210> 12325
 <211> 135
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-099-Q1-N6-C6
 <400> 12325

tggaccccaa aaacagccgc cggggggggg ggggataaaa aaaaaaaacc tgcggagggc 60
 tgggaagcca caaacaacag acaaaaaaacc tattatagaa ctataactca caagaaaccc 120
 aaaagagggc accac 135

<210> 12326
 <211> 570
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-099-Q1-N6-C7
 <400> 12326

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 ttttttgggg gggggggggg taataatntt cttttttttt tttttttttt tttttttttt 180
 ttttttattt tttttatatt tatattttat tttttttttt tttttttttt tatattattt 240

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 tttttttttt attatcattt ttttcttttt ttttttctat atttttattt ttattttttt 360
 tttttttttt tttttttttt tatttttttc atttcccttc tttactcatt tttttttatt 420
 ttttcttttt ttcttttttt tttattttatt tatctctcat tatttccact tattatatta 480
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<210> 12327
 <211> 261
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-099-Q1-N6-C8

<400> 12327

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 tttttataaa aaaaataaat ttattttattt tttttttttt tttttttttt tttttatttt 120
 tttgcttaat tttttttttc tttttttttt tttttatttt ttcatttttt tatctttttt 180
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 tatctttttt atattttttt c 261

<210> 12328
 <211> 571
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-099-Q1-N6-C9

<400> 12328

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 gaaacagcac cttgccttaa ttgcctgtta atattcagag cagcaagggtg cttcatacta 120
 catcgatttt ttttaactan actctggcat cgactgggag caaccagggtg aggaagtccg 180
 gttatgtcaa gcatgcgaag gagtaacgac tcctgagctc gtttatccaa gagcacccta 240
 cttctgcctc ttgtagatct tgtgcaagaa ggatttcagc actttctgaa ccgcaatgct 300

tggctgggct tcaatgtctg caatcagctt cttgtagctc tcattctcgt actcctgaaa 360
 taccgcctct aggtcaagtt cttttagag gttcttcact tttgccacac aggctggatc 420
 tttcttgcca taattttcaa atagaatgcg cttttggctc tcatcagcac gctcaagggc 480
 ttgcacaact agccatgagc acttgtaatc ttcaatgtcc gttccaatct tgccgataaa 540
 ttcaggatca ccataacaat ccagatagtc a 571

<210> 12329

<211> 562

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N6-D10

<400> 12329

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 ggcaccacca acgatgggtt gctgccacga caggggggtc gtcgggaaag agaactggtt 180
 gtatggcagc aattgttgct gctgtaggaa ggcagcgacc aatgggttag ccaccgctag 240
 tggattaagt aactgttgct gctgtttag gtacgcagca gagttcgaca cagtcagttg 300
 gttgaatgga agtagttgtt gcaagtaggc agcaggggtt gccacagcta gctgagtaag 360
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 tgcattgccc atagcgagcg ggctagatga aagaagttgt tgctgttgga cgtaggcgat 480
 agggttcacc atggctagtt gactgagcgc tcgtagaaac tgttccaact gttgggtgtt 540
 gtggtatgcc tctacctttg cc 562

<210> 12330

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N6-D2

<400> 12330

aaaaaaaccc ccggggggcc caaaaacaaa ttaaaatggg ggaagggccc ctttttttgg 60
 gggggggccc ccccccaac aaaaaaaatt ttttttggga aaccccccaa aaaacaaaaa 120

aaaaaggggc ccccccaaa tttttttgtg gggagggggg cgtggggttt ttaaaaaaag 180
 gggggaaaaa ggggcaaaaa ttttttatTTt taaaaagggg gggggggggT cccccaaac 240
 cgggggaaaaa aaggacaaac tttttctttt aaaaaaaaaa aaaccgtttt tgcgaaatat 300
 gagtaaaaag agggaaaata tttttgcggg caaaaaaac agg 343

<210> 12331

<211> 161

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N6-D3

<400> 12331

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 caccaacaaa ggggagctac cacaacaagg gggggggggg g 161

<210> 12332

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N6-D6

<400> 12332

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 gttttatttga acaaaagtgc agtcaattcc caccatacta ggaaccaggc cagcgctgcc 120
 caaaaacgct caaacatgga aaaaaacgag aaggaaccaa agttcttgga agggaatgca 180
 cggggctaca atacacgact aacaatgcga attgcggtga aacagatcga aatgcaggcg 240
 atgggttctcc ggcttgggct ttttcttatt ctaatttccc cgtcctaate gaaggacagc 300
 ggaacctggc ttgccaggct acggtacttc agggcgtaaa acatctcgat gtagcggcgg 360
 ttatggcgcc tctccacgtt gctcacgtac ttccagaacc cgtacacgcc ggtcagggta 420
 atcagcctct cggagtagag atttcaggTg tactttctcat aga 463

<210> 12333

<211> 299

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-099-Q1-N6-D7

<400> 12333

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atTTTTTTTT gaacttttac tcattataaa ttttaaattat gtcaccacca atttgggggg 120

gggcgggggg cacttctttt tttttcaa at caattttttt taatggaaaa aattttttct 180

ttttttaaat ggttccttct ttttgggcct cctgcttggt taacggatac aacttttggt 240

ttgttaaaaa gggacagggg tgacaccaac ttattttttt aagtgggtgct tttgatggt 299

<210> 12334

<211> 576

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-099-Q1-N6-D8

<400> 12334

ggttggtgggt ttttttagaa atgaactttc ttattgctgg gacgccacaa acatcatcca 60

aaaaacttca ttattgaact ataactcata agcaatctaa aagagggcac caccaatgat 120

gggttggttg tagaactg ttngtgggt ggagccgact ggggtgaatg gcagcaattg 180

ttgcagttgt aagaggggtgc cagcgttagg catagcgtgc aggtagaacg gcaacaactg 240

ttgttggtgc aagaaggcag cagggctcac atcagctagc tggctgaatg gtagtagttg 300

ttgctgctgt aaataagcag cagagttcaa tgctgctagt tgggtgaatg gaagaaattg 360

ctgggggtag gcagcaacta gctggctgaa tggttaattgt tgttgcaaat aagcagcaga 420

gttcaatgca gccagttggt tgaatggaag aaactgatgt tgctgagagt atgcagcaag 480

gtttgctagc acaagttggt gtagttggtg tgccctgatg ttttggtgcca ccaaatggac 540

caaaggtaac tgctgtaata gggctgacgg ttggtg 576

<210> 12335

<211> 557

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N6-D9

<400> 12335

gtgggtgtgt tttttttcaa acaaaaaact ttattattga actataactc ataagaaatc 60
taaaagaggg caccaccaat gatgggttgt tggtagaacg ctgctgggtt tgtcaaagca 120
agttggttga atggcagcaa ttgttgcagt tgtggggggg ggccagcgtt aggcgcagcg 180
tgctggtaga acggcaacaa ctgtggttgt atcaagaagg tagcagggct cacaccagct 240
agctggctga atggtagtag ttgttgcctgc tgtaaataag caggagagtt caatgctgcc 300
agttggttga atggaagaaa ttgctggggg taggcagcag gtagctggct gaatggtagt 360
tgttggttgt gcaaataaga agcagagtgc aatgcaccta gttggttgaa tggaagaaac 420
tgctgttgct gagagtaggc agcaaggttt gctagcacia gttgtttag ttgttgctgc 480
ctgatgtttt gtgccaataa atgcacccaa ggtaactgat gtaatagggc tgatgattgt 540
tggaggaaca gggatgat 557

<210> 12336

<211> 422

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-099-Q1-N6-E1

<400> 12336

caaataaggc anaacaattt ctcaagccaa ggtttataca tgctatgaaa tagttccgtg 60
caatagcacc aatgactgat tggaatgtct gatcccaaaa aggagaattg ggggtgcgggc 120
ggatgaataa agaagcgggg ctggcaacaa tgaacccaat tgtctcaatc cagttccatc 180
tcattatctt ggggtgctact tctgcatgac caaattttta tcgtacgac aagcgacaca 240
gtcacaatct tntgtccatc tccactaata tccaaactag taaccttcga ctcatggccc 300
accaaacttt tgattggttt gtaatcacga gctgaccaca gggctgcttt ggtgtcatag 360
gaagaagtcg ctaaataata cccttcttgg ggttcaaatt tcacatggga aataatactc 420
tt 422

<210> 12337

<211> 519

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-099-Q1-N6-E10

<400> 12337

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tcaccacctac ctaatctttt atcctctana gccgccttct ttttttgttt tttttttttt 60
tatatttttt tttttttttt tttttttttt tttttttttt tctttttttt tttttttttt 120
tttttttttt tttttttttt tttttttttt tttttttttt ttaaaaattt ttttttcccc 180
cccccttttt ttgggggggg gggcggnntnn tttncctttt ttaaaaattt tcccccttta 240
tattttaaaa aatttttctt ttcccaaatt ttcccccctc cccccctttt tttttttatt 300
tcattttttc cccccctttt tatttacctt tttcttaaaa ttttcccttt cctatttacc 360
attttctttt cccctttttt ttttttattn aaaccctttt aaatttttct ttctcttttt 420
nttttttaaa aaattcctcc cattttttcc ccccttcttt tttttttttt ttttaaattt 480
ttataatttt ctctttcacc cccccccatt aaaatctct 519
```

<210> 12338
 <211> 408
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-099-Q1-N6-E11

<400> 12338

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gggggggggg ggtnttctaa aaaaataatc tgcgggggtt tgtagccttg cgctagtaca 60
ttcacttatt tcttagtttt ctttagcttc ctcaaaatcc acgttctttt ccacaagttt 120
tttctttaat ttttcaattt canttctagg ggggtcgccg ggggcaacaa nattggcttc 180
tctggcctta actctgtcta ccaaggaaag cagaatttta tccttctcta tggcttcatt 240
gctcagtttg ataacctctg aacgaagggt accaagggtt atttgacaac tttcactctc 300
aacatttttc tgtgctctta aagtgttgct caagattaag ccttcaaac tattgtaagc 360
aaggctgtct gcgaggtgca tccttgcgca ttgctggaag accaactt 408
```

<210> 12339
 <211> 584

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-099-Q1-N6-E2
 <400> 12339

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gtggtgggtt tttttttttt tttttttttt tttgggaaga aaaaaacatt gctggcaaat   60
ttcttgggaa aaaacatgaa catgggagaa agttcaacgc aagaacacaa caaatgcccc  120
tataattttc gatagcaact ttacacaatg aataccgggg ggcgccaatt atcacaactt  180
gtctacttat ctccacgctg acatcaaact ttgggagcta tctaagatgc aatgatgcta  240
gaactatggt acacaccaac ggatcagcaa tatcgccagc cttacataat ttaaaatgcg  300
atcaggctgg caattacaag cacaccaact accagtagaa gcaccttta gtacccatca  360
acctgctggc cttgtggtgc ctggcgcggg aagccatagc catgtccatg ccacccatgg  420
aaagaatggc cgtatccata gggaaaccct gcagcaggcc cataggcaga cacctgcggg  480
aatccatgca cctggaagct cagcaacggg aacaaccctc caatggccgc cgagaaagtg  540
taattcctcc accgaccacc agccacaggg ggggcgccag cgcc                    584
```

<210> 12340
 <211> 256
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-099-Q1-N6-E3
 <400> 12340

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gtgggggggg ggttttttaa aaaaaatttt ttgttttttt ttttacaaaa aatatcgaga   60
aaaatttcaa tcaataaatt gattattatc tagggaaaca catgttggtt taagggtccc  120
attggcgagt acatttaaaa tataatttaa aggggtgggg cggaaccat agattactgc  180
aaagcagggt tcataaaaaa aaactagttg tatggcataa attggagtaa ctgatgcagg  240
aagggaacaa ccaatg                                     256
```

<210> 12341
 <211> 534
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations

<223> Clone ID: LIB3061-099-Q1-N6-E4

<400> 12341

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taactttctta tttctggttg gccacatata ntcatccaaa aaactttatt attgaattac 120
aactaataat caatctaaaa gagggcacca cgcggttggg ggggttggtta ggaggctgct 180
gggtttgtca aagcaagttg gacaaagggc aacaattggt gtagttgtaa gagggttgcg 240
gggttagccg caaactgctt gtagaaaggc agcaactggt gctgtgtcaa gaaggaagca 300
cgacttgctg cagctagctc gctaaatggc agtagtattt gctgctgcaa ataagcagcg 360
gggttcagtg cggccaattg gttaaatgga agaagttggt gttgctgaga gtaggcagta 420
gctagctggc taaatggtta tagttgttgc tgcaaataag cagnagggtt cagtgtagac 480
agttggttga atggaaaaaa ttgttgttgc tgaaagtagg gaaaaagggt tgcc 534

<210> 12342

<211> 308

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-099-Q1-N6-E6

<400> 12342

cacgcgtact aatttgttcc ttagacgccg tggggggggg tttttgaaaa aacaaccttg 60
ggttttgcat tcctccgaaa ccaaagcaca gatcgactgc aaacctgac gcgtgggagt 120
gcggnnaagg gggggggggg ggggggggat gtaagatcaa ttaaaatttn ttttagtggg 180
ttttgttagg gggcatttnt aaaacatata agggacactt atttacatgc catccaaagt 240
ttttttgttt ttaagttttt gttaattga aatttnttga ataaaaattg ttttgatgag 300
ctggactg 308

<210> 12343

<211> 405

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-099-Q1-N6-E7

<400> 12343

accctacct aatcttttat cctctagnac ggccttcctt tttttttttt ttttttatat 60
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttataatt 180
tttttttggg ttgtgggggg gtccccctct ttttattctt tttttttttt tttttatttt 240
aataattttt ttttcctttt tttttttttt tccctttttt ttataaatat ttttttttta 300
ccctcctttt ttttaattatt atttttttta tctttacctt tttttccttt ccctttatta 360
atttttttta tttttttttt taaacttttt tttattctct ccttt 405

<210> 12344

<211> 331

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-099-Q1-N6-E8

<400> 12344

gggttgccgg ggggtttttt ttttttnnnn tttttttttt tnttttaaaa aaaaattttt 60
tctctttttt tttttctttt tttaaaattt ctcttttttt tttttttttt ttttttactt 120
tatttttttt tctctcatat aattttttta tttttttttt tttttttttt tcttttctcc 180
tttttttttt tttttntttt ttattacctc ttttattttt tccctctctt tctttttttc 240
tttttttttc attccctttt ttctatatat acttttatcc tattttttat taaacccctt 300
atattattat ttctttttct ctttttttct t 331

<210> 12345

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N6-E9

<400> 12345

ggtgtgtttt tttttttttt tttttttttt tttttttttt tttttttttt tagatggaac 60
gaaagcgcca tgtaagaact tggtcgagat acaagtggcc cccctagatc ctcaagcaca 120
aggggaacatg acaccgtaca gctccggggg gggggggggg ggcttgacct acaacacgaa 180

aaatcagctt tttttgcccc aaaataggag agagaatcgc cagacaaggg gtaagaacag 240
 attttttggc catcaggact ttttggacca tgcaacggca ttaatttcgg attgggcaact 300
 ccggtacagc tcgagccttt ttgcaagggg agttctgcgt tccatgactg gtgggtcttc 360
 gtcaaaaagt ttggaaaggt gctttatc 388

<210> 12346

<211> 526

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N6-F1

<400> 12346

atatcgagat aaatctcaat caatatattg attatttcta ggaaacacat gccgctatga 60
 gggcaccatt atcgagtaca tctcatatgt aatctaaaag atggcacctc caacgatggg 120
 ttgctgccac aacaaggcag ggttcatcaa agagaactgg ttgtatggca gcaattgttg 180
 ctgctgtagg aaggcaacga ccaatggggt agccaccgct agtggattaa gtaactgttg 240
 tcgctgttgt aggtacgcag cagagttcga cacagtcagt tggttgaatg gaagcagctg 300
 ttgcaagtag gcagcagggt ttgccacagc tagctgagtc agagctggta caatctgttg 360
 cagcaactgt tgttgcaggt atgtagggtgc attaaccaca gcgagagggc tagatgaaat 420
 cagttgttgc tgttgtaggt aggcggcagg gtccaccatg gctagttgac tgagcgctgg 480
 tagaaactgt tgcaattggt gttgttggtg gtatgcaact atgttt 526

<210> 12347

<211> 546

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-099-Q1-N6-F11

<400> 12347

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 atttctggtt ggccacatac catcatccaa aaaactttat tattgaatta caactaataa 120
 gcaatctaaa agagggcacc accaatgatg tgttgggttt cgcacggtgc tnnntttgtc 180

aaagcaagtt ggacaaaggg caacaattgt tgtagttgta agagggttgc ggggttagcc 240
 gcaaactgct ggtagaaagg cagcaactgt tgctgtgtca agaaggaagc acggcttgc 300
 gcagctagct ggctaaatgg tagtaatatt tgctgtgca aataagcagc gaggttcatt 360
 gcggccaaatt ggttaaattg aagaagttgt tgttgatgag agtaggcagt agctagctgg 420
 ctgaatggta atagttgttg ctgcaaataa gcagcaaggt tcaatgtaa tagttggttg 480
 aatggaaaaa attgttggtg ctgatagtag ggagaagggt tgccagacct cttggttgat 540
 cacagt 546

<210> 12348

<211> 138

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N6-F2

<400> 12348

aaaaaaaaaa ttggtttttt ttttttttaa attatattat taaaaataa ataaattttt 60
 atatatttaa aaaaaaaaaa ttttaaatat aaaagaaaat aaaaaataa aaaaaaaaaa 120
 tttttgggtt gaaggggg 138

<210> 12349

<211> 311

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-099-Q1-N6-F4

<400> 12349

aaaaactaga aatgtacttt cttatttctg ggaagccaca aacatcatcc aaaaaacttc 60
 attattgaag tataactcat aagcaatcta aaagagggca ccaccaatga tnggttggtg 120
 gtagaaggct gtggggtttg tcaaagcaag ttggttgaat ggcagcaatt gttgcagttg 180
 taagagggty ccagcgttag ggcagcgtg caagtaaaac gggaacaact gctgttggtg 240
 caagaaggca acaaggctca catcagctat ctgactaaat ggtggaagct gttgctgttg 300
 aaaataagca a 311

<210> 12350
 <211> 291
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-099-Q1-N6-F6

<400> 12350

 tttaaaaaaa ttaagcatgc tttattcact gctccggttt ttcaatgtct aatgtttcca 60
 gcctataagc atttaaaaca ttacaactaa ccttgaccaa acttgtaaata accaacacaa 120
 ttctatcctt tatatatggg gggggggcgg atancaacta ccaccgttta tgacatacag 180
 aaattgtaca ctactacat aggccccaag acttcctacc tgtcctaaat tcaaggaacc 240
 atcctacccc caaaaatcta aaaacaacat gacactcata aaccaaactg a 291

<210> 12351
 <211> 396
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-099-Q1-N6-F7

<400> 12351

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 gctgcatttg gtcaatgttt acatttacat acaactggga tcgcaccaat aaacgcacta 120
 gcacaaagct ggccatcgat acaatgcccg tttcagactg ctaaaccatn aanttcanta 180
 tgacccaaaa cagtatataa cataaatgac ctacgacaaa ttaaatacgct gcacctccag 240
 aacccctgag aaaggccatc ttcgttgctt taacacactg actctgcctt tccctctttt 300
 cgcgctggca ttcaccacac cagctcgga aatccttctg gtattttctt atctctctga 360
 acacagagct ccggcaccac aaaagcagat ttattc 396

<210> 12352
 <211> 537
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-099-Q1-N6-G10

 <400> 12352

gtgggtgttt ttttgaacac ataagatcta gaaatgtact ttcttatttc tgggaagcca 60
 caaacatcat ccaaaaaact tcattattga actataactc ataagcaatc taaaagaggy 120
 caccgccaat gatgggttgt tggtagaacg ggggggggtt tgtcaaagca agttggttga 180
 atggcagcaa ttgttgcagt tgtaagaggg tgccagcggt aggcgcagcg tgcaggtaga 240
 acggcaacaa ctgttgttgt gtcaagaagg caacagggct cacatcagct agctggctga 300
 atggtggttag ctgttgcgtg tgtaaataag cagcagagtt caatgctgcc agttggttga 360
 atggaagaaa ttgctggggg taggcagcag ctagctgact gaatggtagt tgttgttgca 420
 aataagcagc agagttcaat gcagccagtt ggttgaatgg aacaaactgc tgttgcagag 480
 agtaggcacc aagggttcct aacacaagtt ggtgtagttg ttgggccttg atgtttt 537

<210> 12353
 <211> 405
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-099-Q1-N6-G2

 <400> 12353

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 aaggctgctg ggtttggggg ggggggggtg acaaagggca acaactgttg gagttgtaaa 180
 agggaagagg ggtagccac aaactggtg tagaacggaa gcaattgttg ttgttttaaa 240
 aaggaagtgg ggcttgttga agctagctgg ccaaattgga gtaatatttg atgatggaaa 300
 taagcagagg ggttaaatgc ggacaattgg ttaaatggaa gaaattgttg gtagtgagag 360
 taagcaaaaa ataatagct aaaaggga aattaatggt gatga 405

<210> 12354
 <211> 565
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-099-Q1-N6-G3

 <400> 12354

ggtgtttttt tttagaaatg aactttctta tttctgggac gccacaaaca tcatccaaaa 60
 aacttcatta ttgaactata actcataagc aatctaaaag agggcaccac caatgatggg 120
 ttgttggttag aacactgttg ggtttgtcaa gagggggggg ttgaatggca gcaattgttg 180
 cagttgtaag aggggtgccag cgttaggcat agcgtgcagg tagaacggca acaactgttg 240
 ttgtgtcaag aaggcagcag ggctcacatc agctagctgg ctgaatggta gtagttgttg 300
 ctgctgtaaa taagcagcag agttcaatgc tgctagttgg ttgaatggaa gaaattgctg 360
 ggggtaggca gcaactagct ggctgaatgg taattgttgt tgcaaataag cagcagagtt 420
 caatgcagcc agttgggtga atggaagaaa ctgatgttgc tgagagtatg caacaaggtt 480
 tgctagcaca agttgtttga gttgttgtgc cctgatgttt tgtgccacca aatggaccaa 540
 aagtaactgc tgtaataagg ctgac 565

<210> 12355
 <211> 553
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-099-Q1-N6-G4
 <400> 12355

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 gagatgcggg ccgccgccgc cgcggcgcgc ggggtggcaga tgcgcacgct ggaggcggtc 120
 accgcggtgc tggccgtcac gcagctggcg tgcgtggggg tgctgcaccg cgcgccgcc 180
 gccgcgtacg ctgatgatga agccgatgct accgcctacg ccgacgctgg tggcgaccag 240
 tgcgagcctg gctgttccat cggcaccgag gacgacgccg acgccgactg ccagcgcgcg 300
 cagcagcagc agcatgggcg ccaccaccac caaccaggc agggcggcgg gccctcgtgc 360
 agaggtcattg tgaactagca taccatgca tgcattgttg gtggtgtcgc tctcttgtct 420
 tgccattttc cgtgctcgtg tctccgctcg tggaaaataa gcaattttaa cttagtttaa 480
 tttcctgtgt gtcattgtgt cegttaatg ggtatgcctc ctattattat ggtcgaatgt 540
 ggggtgtcgac agg 553

<210> 12356
 <211> 163
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N6-G5

<400> 12356

gggtgcggggg gggtttaatt tttttttttt tttttttttt tttttttttt tttaaatata 60

attttttttt ttttattttt ttttttttta tttttaatta ttttttttat tttatatattt 120

tttttttttt ttttattttt tttttttttt tttttatttt ttt 163

<210> 12357

<211> 583

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N6-G6

<400> 12357

agaaatatat cgagataaat ctcaatcaat atattgatta tttctaggaa acacatgccg 60

ctatgagggc accattatcg agtacatctc atatgtaatc taaaagatgg cacctccaac 120

gatgggttgc tgcgcgcggg ggggggggtt catcaaagag aactggttgt atggcagcaa 180

ttgttgctgc tgtaggaagg caacgaccaa tgggttagcc accgctagtg gattaagtaa 240

ctgttgctgc tgttgtaggt acgcagcaga gtctgacaca gtcagttggt tgaatggaag 300

cagctgttgc aagtaggcag cagggtttgc cacagctagc tgagtcagag ctggtacaat 360

ctgttgcagc aactgttggt gcaggatatgt aggtgcatta accacagcga gagggctaga 420

tgaaatcagt tgttgctggt gtaggtaggc ggcaagggtc accatggcta gttgactgag 480

cgctggtaga aactgttgcc aatgttggtg ttggtggtat gcaactatgt ttgccacgac 540

aagtgggttg gatgcaagca actgttggtg caagtaggcg aca 583

<210> 12358

<211> 567

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N6-G7

<400> 12358

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aaagcagcac agtatggtaa ttaaactgat caatttacag catgatgtat ccccaaattcc 120
 agggcccccaa tgtcgattca acatgtaact gagggggggg ggctacaaca ttctacccta 180
 caacattgaa ggacacaaaa gagcaaaaag aaagaaaaaa tgccttggat gacactttta 240
 ttgctccgat gatctccaac agactgatct gcagatcacg catgtaacca ggtgctgac 300
 attgtcgaat gtcgagacac acagctgcat gtcgcacgtt cacttcatat aactgttcca 360
 ctagggagta aagcatcctt gatcactgtg acaattccac ctttgatgaa gtaccctgtct 420
 gtctcccttg cagcttcttg aacattgtca gcattgagta tcttaacatt gtctccaatt 480
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<210> 12359
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-099-Q1-N6-G8
 <400> 12359

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 aatctatcta agcttaaacc cttcacgggg attgccgggc gatcgccagc accgcgccga 180
 tagtccaaga tgcagtgtcc cttgctgcgt tgttcttctg atctgcaggc ggttgggcgt 240
 ccgcgtccgg cgaaggagct ggggtagtgt gctctggcga tggcgctggg cgactcctgg 300
 gcgcatgtgc agtcaccgga gcaggggcaa gtgggggtgt ggggtgcatgt gcaggcgact 360
 gctacggcga gaccgtaca ggggcatgcc gacggcaagt acccgcccaa ggcccacgtg 420
 ttaggttgca tgt 433

<210> 12360
 <211> 592
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-099-Q1-N6-G9
 <400> 12360

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atgttgaaaa aaaaataaca caaagattca aggataaata agaaaacacc catgcatcca 120
ggtcacaggg gctcttctta tctgcagag tcaaaaatca ttctcgaata gataacgcat 180
gttccatgca atagtatgcc gcaaactcta gtgatataatt ctctgcccgcc caaagggtata 240
cataacagaa acctactatc cctcccagcc agatcacatg aagtcgtact catcgggggtc 300
atcgtagcca ccaccccgcc cggggatgaa gtcgtcgtct cctttctcga tgtggagttg 360
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ctcgtttagca attgccgtca cggaagaaga tataatctttg gcgtccgcac ctttcaacga 480
tgtcatggaa agtctcatga cattcttaag cagagccatg tagtgaaagc ttttctcata 540
ggggcgtagt ttgtttgcaa taagctccgc gtattccgaa aatcactctc gg 592

<210> 12361

<211> 475

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N6-H1

<400> 12361

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gggaattaga ccttttatgg gtcattttac tggggtacaa ggggcaaggg cccctttgcg 180
acctaatca tactggccta cagctttatt ggttggccat ttgagagggg gctttttaa 240
aaggggcccc cccctgaacg aaaggggggtc ccctttgaca caaacaattc tttttcccat 300
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ccaccggggt tttttagtaa taaaagagc ctttgcccca gtcccatga gaatctgggg 420
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<210> 12362

<211> 498

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N6-H12

<400> 12362

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gcctctataa catcatttat ttattttattt attttattat ttattttattt atttttcaac 180
gcatacatat ggcaaagcgt gccttggcaa cttgggcaac gtcttattca atctatttat 240
atacttcggt ttattcgatg gccttctctt atttcattcg ttggttcga cttggatgcc 300
gaatgcactt gctcgctagc gaaaggcatc catcagcacc tgggttcac gaacactgct 360
gctgtccttt tcggcacggt gaatcgacct gtggcggggt cgtaccaga ctgcctggct 420
aacgcacccc atgaattcac ctgcactgga tgcaactgaa gccgcagtga tgcaagatca 480
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<210> 12363

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N6-H2

<400> 12363

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tttttttttt tttttttttt tttttttttt gggggggggg tttttttttt tttttttttt 180
tttttttttt tttttttttt aaaaaagggg ggggcctttt ggggcccccc ccccgagagg 240
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ggggaggatt ttttgggggg ggggggggcg cccccccccc cctggggggg gggggtgggg 360
ggcgcgaaaa aagccccccc cccttttggg ggggggggga aaaccccaa aaaaaaagg 420
gggggggggg cgccccccc cccgagggg 450

<210> 12364

<211> 483

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N6-H6

<400> 12364

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ataaaaaatt taaaaggggg ccccccccag gggggggggg ggggaaaacc ctgggggggtt 180
tgtcaaagca aggtgggtga atggccccc aa ttgttgcagt tgtaagaggg ggcccgcgtt 240
aggccccacc ggctggtaaa acgggaacaa ctgggggttgt gtcaaaaagg gagcagggtt 300
cacccacact aactggctga atgggagtag ttgttgcctgc tgtaaataaa ccggagagtt 360
caatgctgct agttgggtga atggaaaaaa ttgctggggg gaggcaacag ggagctggct 420
aaaaggaggt tgttgttgtt gcaaataaaa agcagagttc aatgaaccct attgggtgaa 480
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<210> 12365
 <211> 558
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-099-Q1-N6-H7

<400> 12365

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ggttgttgggt agaatgctgt nntttgtggg accgcttggg tgaatggcag caattgttgc 180
agttgtaaga gggtgccagc gttaggcgca gcgtgctggg agaacggcaa caattgtggg 240
tgtgtcaaga aggtagcagg gctcacacca gctagctggc tgaatggtag tagttgttgc 300
tgctgtaaat aagcaggaga gttcaaagct gtcagttggg tgaatggaag aaattgctgg 360
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ttcaatgcac ctagttgggt gaatggaaga aactgttggg gctgagagta ggcatcaagg 480
tttgctagca caaattgttg tagttgttgt gccctgatgt tttgtgcaa taaaagcccc 540
aaaggtaact gctgtaat 558

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<210> 12366
 <211> 547

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-099-Q1-N6-H8

<400> 12366

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caaaaaactt tattattgaa ctataactca taagaaatct aaaagagggc accaccaatg 120
atgggttggtt ggtagaacgc tgctgggttt gtgggaatcg cntgggggga atggcaccaa 180
ttgttgcaagt tgtaagaggg tgccagcgtt aggcgcagcg tgctggtaga acggcaacaa 240
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agcagagttc aatgcagcta gttggttgaa tggaagaaac tgctgttgct gagagtaggc 480
agcaaggttt gctagcacia gttgttgtaa ttgttgctgc ctgatgtttt gggcccataa 540
atgcacc 547

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<210> 12367
 <211> 593
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-099-Q1-N6-H9

<400> 12367

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tgatgtgttg ttggtaggag gccgctgggg ggggggagag caagttggac aaagggcaac 180
aattgttgta gttgtaagag ggttgcgggg ttagccgcaa actgctggta gaaaggcagc 240
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agtatttgct gctgcaaata agcagcgggg ttcagtgcgg ccaattggtt aaatggaaga 360
agttgttggt gctgagagta ggcagtagct agctggctaa atggtaatag ttgttgctgc 420
aaataagcag cagggttcag tgtagacagt tggttgaatg gaagaaattg ttgttgctga 480

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gagtagggag aaaggtttgc cagagctact tggttgatca gaggtagcac gagttgctgc 540
acctgtttgtg ccctgatggg ttgtacccat gactgcccc aaaaagggt gcc 593

<210> 12368

<211> 485

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N7-A1

<400> 12368

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actgctgggt ttgtcaaagc aagttgggtg aatggcagca attggtgcag ttgtaagagg 180
gtgccagcgt taggcgcaac gtgctgggtg aacggcaaca actgtgggtg tgtcaagaag 240
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gcaggagagt tcaatgctgc tagttgggtg aatggaagaa attgctgggg gttggcagca 360
ggtagctggc tgaatggtag ttgttgttgt tgcaaatcag aagcagagct caatgaacct 420
agttgggtga atggaagaaa ctgctgttgc tgagagttgg cagcaagggt tgctgcaca 480
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<210> 12369

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N7-A10

<400> 12369

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gctgctgggt ttgtcaaagc aaggggttg aatggcagca attggtgcag ttgtaagagg 180
gtgccaaggt taggcgcagc gtgctggtag aacggcaaca actgtgggtg tatcaagaag 240
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agcaggagag ttcaatgctg ccagttggtt gaatggaaga aattgctggg ggtaggcagc 360

aggtagctgg ctgaatggta gttgttggtg ctgcatataa taagcagcgt tcaatgcagc 420
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<210> 12370

<211> 482

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N7-A11

<400> 12370

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 gagggcggag gggttatcca aaaaacttca tttttgaact ataactcatt agcaatctaa 180
 aagagggcac cgccaatgat gggttgttg tagaacgttg ttgggtttgt caaagcaagt 240
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 aggttgaacg gcaacaactg ttgttggtgc aagaaggcaa cagggctcac atcagctagc 360
 tggctgaatg gtggtagctg ttgctgttgt taattagccg cagagttcaa tgctttctgt 420
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<210> 12371

<211> 500

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N7-A12

<400> 12371

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 tggttttttt ttgggaacac atttcgggtt ggggggggga ttgttgggtc cattttattt 180
 gggatttaaa agggggggccc cccaacggtg ggggtggtgga aggggggggt tattaagag 240
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 ttggcccccg ggggggggggt 500

<210> 12372

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N7-A3

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 gctttggggg ttggaaaaaa aagggggggg gatgggggaa attggggggg gtgtaaaagg 180
 gggcccccg ttggggcccc gggctgggtg aaacggaaaa atttgggggtg ggttaaaaaag 240
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 cccgggggggt tcaaaacttt tctttggttg aatgggaaaa atttgtgggg ggggggcca 360
 aattaccggc ctaatggggg ttggcgtgtg tccaaataaa aagccgagtt taatccccct 420
 ttggtgggggt gatgggaaaa aatttttttc ttt 453

<210> 12373

<211> 494

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N7-A5

<400> 12373

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 acagcacata gttttcttcag tgggggacac cgccggcagc agcgtagggg catggagtcg 180
 gctgctgcag gccgcacatc gccgtcagtt gctgcgctat ctgcgccgcc aacagccccg 240
 cgacctggcc gctttgcggc tgctgctgca ggatggactg gaggaccaag ccgaagatcg 300
 cctgggtaccg gtgctgcgcc tccacctgcc tgagctgctg gcaacactgc tgccgcaacg 360

actggcactg aggcgagcag tagggcgctcg ccgtcgggct gcactgatgc ctcaggaact 420
cgacgcactg gcccaggatc ggggtgctgc caacgccgca ggttccttgc agctggcacg 480
ggcttgatg cggc 494

<210> 12374

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N7-A6

<400> 12374

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acgctggttg gtttgtcaaa gcaagttggt tgaatggcag caattgttgc agttgtaaga 180
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aggcaacagg gctcacatca actagctggc tgaatggggg tagctgggtgc tgggtggaaat 300
aaacagcaga gttcaatgct tccaggtggg tggattggaa aaaattgctg ggg 353

<210> 12375

<211> 504

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N7-A8

<400> 12375

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ttcaattgca aacaccacta atgtcattgc tgctgcatgg attatttttg tagtatgagt 180
ggtacaagcc ccacattgat ggtaggtatt gtgctgctgt caagatagcc accgcacttt 240
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tggattgaac catgttgtaa attgcttggg gaatgtattg tggcagaatc tgcctaagat 360
catgacaaca ttgctagtgc aatacctggc agctacttgg ttggatcaaa cctactcgga 420
gaaaagcatt accaaagggc tgcactgctg ccttaggaat tcataacaat tttttatatt 480

tgaactactg ctatagtaat tata

504

<210> 12376

<211> 617

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-099-Q1-N7-A9

<400> 12376

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aactataact cataagcaat ctaaaagagg gcaccaccaa tgatgggttg ttggtagaac 120

actgttgagt ttgtcaaagc aagttgggtg aatggcagca attgttcag ttgtaagagg 180

gtgccagcgt taggcatagc gtgcaggtag aacggcaaca actgttggtg tgtcaagaag 240

gcagcagggc tcacatcagc tagctggctg aatggtagta gttgttgctg ctgtaaataa 300

gcagcagagt tcaatgctgc tagttgggtg aatggaagaa attgctgggg gtaggcagca 360

actagctggc tgaatggtaa ttgttggtgc aaataagcag cagagttcaa tgcagccagt 420

tggttgaatg gaagaaactg atgttgctga gagtatgcag caaggtttgc tagcacaagt 480

tggtgtagtt gttgtgccct gatgttttgt gccaccaaat ggaccaaagg taactgctgt 540

aatagggctg acggttggtg gaggaacacg ggtgataatg gtaagatgcc tngtgcgatt 600

gcctgtggga tcctgta 617

<210> 12377

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N7-B1

<400> 12377

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316

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<211> 388

<212> DNA

<213> Zea mays

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<400> 12378

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aaaggggggg gggggaagg gggggggttt ttttgaaaaa aaaaaccggg aagaagtttt 180
ttggccccc ccaaaaaaa aaaaacctcc ccaaaaaaa gggggctttt ttgggggggg 240
gggggaaaac ccccccttg ggggggggga atctttttaa aaaaaaaat ttttttttgg 300
tgggggtgga aaaaagagg cccccttttg ggggaaaaaa aaaaaaaatt ttttttggg 360
gcgggggggg ggggcccccc ccccgggg 388

<210> 12379

<211> 609

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N7-B11

<400> 12379

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tcacactgga tatcggtaca aggtaataat ggaacctctg taaagaatct tgaagaagcc 180
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cattttgct 609

<210> 12380

<211> 538

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N7-B12

<400> 12380

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cacagctttt acaaccatgc gttgcctgaa caaacaccaa gagcagctac aaacattgca 180
acctgacctt cctttgagac catatataaa gatcaccaac cagagagagg caactgactc 240
acaacacaat ttgcagctac aaaaccattg tatatgtacg gatgtgctat tccttgacgt 300
cttcaaagag ttcgtcttcg tcctcgctcg tttctttggc ttcacagaa tcgtagctgt 360
cgtactgtag gaggctgcca aagtcgctgg attgtgcctt gatgagcctc tcctggatcc 420
tctccttgat ggccgtcccc attgagtggc acccttcctc aaacttctct aagaaaccag 480
ccaccagcg gtctgcattt tccacccact ctctcgtggag ttttgcaacc gcccgga 538

<210> 12381

<211> 573

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N7-B2

<400> 12381

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gatgaacaca gcactaacia ctgacacaga gcgaccttgc aatcaaaaac acagatgggc 180
aacaacaaac gagacgaacg aagataaacc ctctggacta gggtaaacad cacggtagcg 240
aacaggataa cttggccgcy cgggccccac cgctcagttc ctccagttcc cgtcggagtt 300
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gcccgcaccg tagccgcgcg cgcaccgcc gtagccgcg cgcacatcac ggcgcccgc 420
accgcgtag ccgcgcctc cacggccacc accgtagcg ccgcgcgcg ctccacggcc 480
gcccgcgggac tgggcctcgt tgacggtgat gttgcggcg tccagtcct tgcggttcat 540
gccctcgatg gcgttccgca tcgcctcctc cgt 573

<210> 12382

<211> 583

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N7-B3

<400> 12382

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tttttttttt tttttttttt tttttttttt ttaaattttt aattaatttt tttttttattt 120
taaattaaaa aataaaaaat aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaagtggg taaaataaat atctcctcgg caaaaaaaaa 240
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 420
aaaaaaaaaa aaaaaaaata actaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaggacaaa 480
attttgtttg ataaaacccc aaattgtaaa aaaaacaaaa gaaaattttg tcacccccca 540
aaaagaaaca caccttttaa taaaaaaaaa aaaaagtggg tgt 583

<210> 12383

<211> 567

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N7-B5

<400> 12383

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aactttatta ttgaattaca actaataagc aatctaaaag agggcaccac caatgatgtg 120
ttgttggttag gaggctgctg ggtttgtcaa agcaagttgg acaaagggca acaattgttg 180

tagttgtaag aggggttgcg ggtagccgc aaactgctgg tagaaaggca gcaactgttg 240
ctgtgtcaag aaggaagcac ggcttgctgc agctagctgg ctaaattgga gtaatatattg 300
ctgctgcaaa taagcagcga gggttcagtgc ggccaattgg ttaaattgga gaagttgttg 360
ttgatgagag taggcagtag ctagctggct gaatggtaat agttgttgct gcaaataagc 420
agcagggttc agtgtagata gttggttgaa tggaagaaat tgttggtgct gatagtaggg 480
agaaaggttt gccagagcta cttggttgat cacaggtagc acgagttgct gcagctgctg 540
tgccttgatg gtttgtacca atgactg 567

<210> 12384

<211> 473

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N7-B6

<400> 12384

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taagcatgtg aagcattaca gctgaccttg gccagacttc taaatggcaa cagattctat 120
ggtttatata tggtagagta caaactggca acgagcacgg tatatgagat acagaaattg 180
tacactcact acataggccc caagacttcc tgctgtcct aagctcaagg gaccatcctt 240
ccagcagaaa ttttgaacaa catgtcactc tgaaccaaac gggagctcat tctgtgctca 300
ggacgcttgc ggtctcagct acatcgctgc tggttttcac ggcgccagcg aaactgcaga 360
tcttgttcag ggcgctcagg taagctctga cactggacac cacaatgtcc atggatgccc 420
cgctcccgtg gaaggagcgg ttgaaagact ggccagtcag ggcagttttg gcg 473

<210> 12385

<211> 277

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N7-B8

<400> 12385

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ggaactctga ctacaaatga aacaagaaaa gggctctcac aatgaaggaa aacttttttt 120

tttttttttg gaaacgtaat tgtttggttg tacactggcg gcacatgcag tgattgtgag 180
 cgggcgacaa agcaaggcct atcatgcatg tagtacggta tagaactgtt ggggtagaag 240
 gaggcagttg tgctcacatt agttagctgg ctgggtg 277

<210> 12386
 <211> 127
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-099-Q1-N7-C11
 <400> 12386

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 tgtgagcact gtctggttg tgtggctgtg actcatgaga aatctaagag ggggcacctc 120
 caatgat 127

<210> 12387
 <211> 335
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-099-Q1-N7-C12
 <400> 12387

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 ttttttggtt tttgtttttg tttgtttctt tttttttttt tttttttttt tttttttttt 120
 ttgttttttt tttttttttt tttccctntt ttggggggtg tggggggggc ttttccctt 180
 tgtgggggtt ttttaattgt gtgggtttgt tgtgccgggg gggggggggc gccgggttg 240
 gggggggggg ggggttggtg gggcgctgcg tggggtgggg ttgggtgccg gccggtggc 300
 ttgtgggtgc cgggcctgc cggggccggg gggcg 335

<210> 12388
 <211> 502
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-099-Q1-N7-C2

<400> 12388

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attattgaat tacaactaat aagcaatcta aaagagggca ccaccaatga tgtgttggtg 120
gtaggaggct gctggggttg tcaaagcaag ttggacaaag ggcaacaatt gttgtagttg 180
taagaggggtt gcgggggttag cgcgaaactg ctggtagaaa ggcagcaact gttgctgtgt 240
caagaaggaa gcacggcttg ctgcagctag ctggctaaat ggtagtaata tttgctgctg 300
caaataagca gcgaggttca gtgcggccaa ttggttaaat ggaagaagtt gttgttgatg 360
agagtaggca gtagctagct ggctgaatgg taatagttgt tgctgcaaat aagcagcagg 420
gttcagtgtg gatagtttgt tgaatggaag aaattgttgt tgctgatagt agggagaaaag 480
gtttgccaga gctacttggt tg 502

<210> 12389

<211> 582

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N7-C3

<400> 12389

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ccaatgatgg gttgttggtg gaacactgct gggtttgtca aagcaagttg gtcgaatggc 120
agcaattggt gcagttgtaa gagggtgcca acgttaggcg cagtgtgcag gtagaacggc 180
aacaaatggt gctgtgtcaa gaaggcagca ggggtcacag cagctagctg gctgaatggt 240
agtagttggt gttgttgtac ataagcatga gagttcaatg ctgccagttg gttgaatgga 300
agaaattgcc gggggtaggc agcagctagc tggttgaatg gtagtagttg ttgttgctgc 360
aaataagcag cagagttcaa tgcaactagt tggttgaatg gcagaaactg ttgttgctga 420
gagtaggcag caaggtttgc tagcacgagt tggtttagtt gttgtgccct gatgttttgt 480
gccaacaaat gcaccaaagg taactgctgt tgctgagagt aggcagcaag gtttgctagc 540
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<210> 12390

<211> 628

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N7-C4

<400> 12390

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aactttatta ttgaattaca actaataagc aatctaaaag agggcaccac caatgatgtg 120
ttgttggttag gaggccgctc ggtctgtcaa agcaagttgg acaaaggga acaattgttg 180
tagttgtaag agggttgcgg ggtagccgc aaactgctgg tagaaaggca gcaactgttg 240
ctgtgtcaag aaggaagcac ggtttgcctgc agctagctgg cttaatggta gtagtatttg 300
ctgctgcaaa taagcagcgg ggttcagtgc ggccaattgg ttaaatggaa gaagttgttg 360
ttgctgagag taggcagtag ctagctggct gaatggtaat agttgttgct gcaaataagc 420
agcagggttc agtgtagaca gttggttgaa tggaagaaat tgttggtgct gagagtaggg 480
agaaagggtt gccagagcta cttggttgat cacaggtagc acgagttgct gcagctgctg 540
tgccctgatg gtttgtacca atgactgcac caaagatagg gctggcgatt gttgaaacaa 600
caagggtgata aagtatgttg cttgctgc 628

<210> 12391

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N7-C5

<400> 12391

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ccgtggcccc ccgggggggg gggggacagt tttttgcaaa aatgccggcg tgatgtgcgt 120
acttatgtgt gggggggggg ggtttttcca caaaaaattt ttttgtgggg gggggccccc 180
ccggggaaaac gttggggggg gggggtgggg gggggggggg ggcccaaaag cctagggggg 240
tgggttttgt tggcccaaaa gaagacccca ccacgtgcat tttggggggt tttttggggg 300
gggggggggg gggccaaccc aaaagaccgc tgggtcaggg ggtggggggc cccccggggg 360
gggggggggg gaaatttttg gcgcacatac ggggtcttgt gagtggactg ggggggctcg 420
ccgggggg 428

<210> 12392

<211> 609

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N7-C6

<400> 12392

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aactataact cataagaaat ctaaaagagg gcaccaccaa tgatgggttg ttggtagaat 120
gctgttgggt ttgtcaaagc aagttggttg aatggcagca attgttcag ttgtaagagg 180
gtgccagcgt taggcgcagc gtgctggtag aacggcaaca attgtgggtg tgtcaagaag 240
gtagcagggc tcacaccagc tagctggctg aatggtagta gttgttgctg ctgtaaataa 300
gcaggagagt tcaaagctgt cagttggttg aatggaagaa attgctgggg gtaggcagca 360
gatagctggc tgaatggtag ttgttgttgt tgcaaataag aagcagagtt caatgcagct 420
agttgggtga atggaagaaa ctgttgttgc tgagagtagg cagcaagggt tgctagcaca 480
agttgttga gttgttgc cctgatgtt tgtgccataa aatgcaccaa aggtaactgc 540
tgtaatagg ctgatgatt ttggaggaac aaggtgataa aggtaagatg ccagctgcga 600
ttgcctgtt 609

<210> 12393

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N7-C7

<400> 12393

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aaaaaaaaaa aagggggggc cccaaaaaga aagggggggg gttttttttt ttccaaaagg 180
gggggggggg ggggctttta aaaaaaaaaa accgggggtt ttttgggggg gggggggggc 240
ccggggattt cggggcgggg cctggggggg gaccaaattt tccttttggg ggggggttta 300
aagggggggg gaaaagagg gaaaggggtt tccgggggga aaatggtttt cccttaaaat 360

tccaaaaaaa aaattagccg gggaaataaa agggaaaagc ggggggggcc tatggggggg 420
ccaacttcca atatatgggg gggggcca 448

<210> 12394

<211> 378

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-099-Q1-N7-C8

<400> 12394

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tgttgggggg gtttttgttt tgtttttttt gggtttttgt tttttggttg gggttgttgt 180
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taggggggtt tttgggtttt tttagggggg tttgggggtt ggggtggttt gaggggggtg 300
aattgggtaa aagggggggg ttanggtttt tagaatttgt tggggaaaaa aaaaaattat 360
aaggggttnt tggggggg 378

<210> 12395

<211> 580

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N7-C9

<400> 12395

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ccttaattgc ctgttaatat tcagagcagc aaggtgcttc atactacatc gatttttttt 120
aactagacgc tccacatcat actagagcaa ccaggtgagg aagtccggtt atgtcaagca 180
tgogaaggag taacgactcc tgagctcgtt tatccaagag caccctactt ctgcctcttg 240
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atgtctgcaa tcagcttctt gtagctctca ttctgtact cctgaaatac cgcctctagg 360
tcaagttctt tgtagagggt cttcactttt gccacacagg ctggatcttt cttgccataa 420
ttttcaaata gaatgcgctt ttggctctca tcagcacgct caagggttg cacaactagc 480

catgagcact tgtaatcttc aatgtccggt ccaatcttgc cgataaattc aggatcacca 540
taacaatcca gatagtcac ctaggacttga aatatgttcc 580

<210> 12396

<211> 632

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-099-Q1-N7-D10

<400> 12396

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gcaccattat cgagtacac tcatatgtaa tctaaaagat ggcaccacca acgatgggtt 120
gctgccacga caaggcaggg ttcacaaaag agaactgggt gtatggcagc aattgttgct 180
gctgtaggaa ggcagcgacc aatgggttag ccaccgctag tggattaagt aactgttgct 240
gctgttgtag gtacgcagca gagttcgaca cagtcagttg gttgaatgga agtagttgtt 300
gcaagtaggc agcagggttt gccacagcta gctgagtaag agctggtaca atttgttgca 360
gcaactgttg ttgcaacaac tgttggtgca ggtatgtagg tgcattgcc atagcgagcg 420
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gactgagcgc tggtagaaac tgttgcaact gttgttggtt ttggtatgca gctacgtttg 540
ccaaagcaag tgggttggga tgcaagcagc tgtctttgca agtaggcgat aggggttcacc 600
acngctaggt ggctccatgc ttgttgctgc tg 632

<210> 12397

<211> 632

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N7-D12

<400> 12397

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ttgttggtag gaggctgctg ggtttgtcaa agcaagttgg acaaagggca acaattgttg 180

tagttgtaag agggttgcgg ggtagccgc aaactgctgg tagaaaggca gcaactgttg 240
ctgtgtcaag aaggaagcac ggcttgctgc agctagctgg ctaaattgga gtaatatattg 300
ctgctgcaaa taagcagcga gggttcagtgc ggccaattgg ttaaattgga gaagttgttg 360
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tgccttgatg gtttgtacca atgactgcac caaagatagg gctggcgatt gttgaaacaa 600
ggtgataaaa gtatgttgct tgctgcgatt gc 632

<210> 12398
<211> 494
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-099-Q1-N7-D2
<400> 12398

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tttttttttt ttttttttta aaaacttttg ggggggggta ttttaattttt ttttaatgaaa 180
ataaattttt tttttttggg gggggggcaaa aattttttaa aaaaattttt ttttatgatt 240
aaaaaaaaaa aaaaaaaaaa aaaggggggc caaaaaattt tttttttggg gggggggggg 300
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ggggggtttcc cccaaatttt ggggaaaaaa gaggaaattt tttttttttt aaaaaaaaaa 420
aacgcttttt gtttcttttt tttttaaaaa ggaattattt tttggggaaa aaaaaaacgg 480
gggtttttgt gggg 494

<210> 12399
<211> 663
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-099-Q1-N7-D3
<400> 12399

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 cta 663

<210> 12400
 <211> 575
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-099-Q1-N7-D4
 <400> 12400

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 aaaactgttg tagctgttgt tgttgctgggt ttgcaactac cttcgccaga gcaagtgggt 540
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<210> 12401

<211> 608

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N7-D6

<400> 12401

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ccaaagttct tggaaaccaa gtacacataa ctccaatata cgactaacia tgcaattgc 180
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ctcatagatt ctctgcaggc cgccctgtga gatcttgctc cagtagctcg gatctgcctt 480
gcatttgctc aagaagttga ccaggatata cgcggccttg tcgctgtggg aagggtcaat 540
gtgcaggcca gataccccgt ccacgatgat ctacgcaggg ccaccatggc aggtcgcgat 600
cgttggca 608

<210> 12402

<211> 562

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N7-D7

<400> 12402

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ctgctggggt tgtcaaagca agttggttga atggcagcaa ttgttgctgt tgtaagaggg 180
tgccagcggt aggcgcaacg tgctggtaga acggcaacia ctgtggttgt gtcaaaaagg 240
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caggagagtt caatgctgct agttggttga atggaaaaaa ttgctggggg taggcagcag 360

gtagctggct gaatggtagt tgttgttggt gcaaataaaa agcagagttc aatgaaccta 420
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<210> 12403

<211> 597

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N7-D8

<400> 12403

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 actgttgggt ttgtcaaagc aagttggttg aatggcagca attgttgctg ttgtaagagg 180
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 gcagcagagt tcaatgctgc tagttggttg aatggaagaa attgctgggg gtaggcagca 360
 actagctggc tgaatggtaa ttgttgttgc aaataagcag cagagttcaa tgcagccagt 420
 tggttgaatg gaagaaactg atgttgctga gagtatgcag caaggtttgc tagcacaagt 480
 tgtttagttagt gttgtgccct gatgttttgt gccaccaa at ggaccaaagg taactgctgt 540
 aatagggctg acggttggtg gaggaacaag gtgataatgg taagatgcct gttgcga 597

<210> 12404

<211> 575

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N7-D9

<400> 12404

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 aatgatgggt tggttgtaga acgctgctgg gtttgtcaaa gcaagttggt tgaatggcag 120
 caattgttgc agttgtaaga ggggtgccagc gttaggcgca gcgtgctggt agaacggcaa 180

caactgtggt tgtatcaaga aggtagcagg gctcacacca gctagctggc tgaatggtag 240
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aaattgctgg gggtaggcag caggtagctg gctgaatggg agttgttgtt gttgcaaata 360
agaagcagag ttcaatgcag ctagttgggt gaatggaaga aactgctgtt gctgagagta 420
ggcagcaagg tttgctagca caagttgttg tagttgttgt gccctgatgt tttgtgccaa 480
taaatgcacc aaaggtaact gatgtaatag ggctgatgat tgttggagga accgggtgat 540
aaaggtaaga tgccagctgt gattgcctgt tggat 575

<210> 12405

<211> 578

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-099-Q1-N7-E1

<400> 12405

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gctatgaaat agttccgtgc aatagcacca atgactgatt ggaatgtctg atcagcaaaa 120
agggagaata tctacttcta gctgatgaat agagaagcgg ggctggcaac aatgaacca 180
attgtctcaa tccagttcca tctcattatc ttgtgtgcta cttctgcatg accaaatttt 240
tatcgtacga tcaagcgaca cagtcacaat cttctgtcca tctccactaa tatccaaact 300
agtaaccttc gactcatggc ccaccaaact tttgattggg ttgtaatcac gagctgacca 360
cagggctgct ttgggtgtcat aggaagaagt cgctaaataa tacccttctt ggggttcaaa 420
tttcacatgt gaaataatac tcttatgagc tggaatagaa tacaacattt gccttttcct 480
caaatcccat atccgacaga aattgtcttc acttccagtt gcaaccagat aaccattagg 540
agagaagctg actnnctaga caggtttcac atggccct 578

<210> 12406

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N7-E10

<400> 12406

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 aaaaatttgc aacccaaaaa ttggggaaaa aaagacgttt aaaaaaagg gaaaaaaacc 120
 ccccgaaaa attaaaagga aaatttaaaa aacattttta aaaggggggt aaaaaaaaaa 180
 ttccggggga aaaaaaaaaa ttaaaggagc cccctttttt taaaaaagga aaacctttta 240
 aaaatgaaaa ttcttttttg gggggaaaaa aaaggggggg aaattttccc aactgttttt 300
 tttttgggtt aaaaaaaatt tgggggggtcc caaaaaaaca aaaaaaaaaa aaagggccccc 360
 aaaatttggg ccccttgggg agaaaaaaa ggcccaaaaa aggttttttt ttttttgggg 420
 gaaaaaaggc caaacccggg aaaa 444

<210> 12407
 <211> 361
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-099-Q1-N7-E12

 <400> 12407

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 ggtgggaata gcttgctggt ttttatgctg ctgcccgctn ataacggccg cgcggctttg 180
 gccggttgct gatggcgat agccttgccg cggtggggct tcggttggtg ctcccgttgt 240
 tggggctgcg cgcgttcccg cncnggctcc cctggtgccc ccgctgctgc gcgctgcgcg 300
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<210> 12408
 <211> 594
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-099-Q1-N7-E2

 <400> 12408

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cgcaagaaca caacaaatgc acctataatt ttctgatagca actttacaca atgaataacca 120
gctgccacca attatcacaa cttgtctact tatctccacg ctgacatcaa actttgggag 180
ctatctaaga tgcaatgatg ctagaactat ggtacacacc aacggatcag caatatcgcc 240
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gaagcacctt taagtacgca tcaacctgct ggcccttggtg tgccctggcgc gggaagccat 360
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gccccataggc agacacctgc gggaatccat gcacctggaa gctcagcaac gggaacaacc 480
ctccaatggc cgccgagaaa gtgtaattcc cccacdgacc accagnccac agggggggcg 540
ccagcgccca ttgaaccaga gttctggggc gggtaatgat tactgtggtc tggc 594

<210> 12409
<211> 566
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-099-Q1-N7-E3
<400> 12409

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tgcaaggcag ggttcatcaa agagaactgg ttgtatggca gcaattgttg ttgctgctgc 180
aggaaggtag cgaccaatgg gttagccact gccaatggat taagtaactg ttgtcgctgt 240
tgtagggtccc cagcaaagtt tgacacagcc agttgggtga atggaagcaa ctggttgaag 300
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tggttggtgta ggtccgtagg tgcattgccc accgcgagcg ggctaaatga aagtagttgt 420
aggtagacgg caggggttcac catggctagt tgactgagca ctggcataaa ctggttcagc 480
tggttggtgtt gctgggtatgc acctacgttc gccagagcaa gtgggttgga tgcaagcagc 540
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<210> 12410
<211> 653
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-099-Q1-N7-E4

<400> 12410

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ggttggccac atacatcatc caaaaaactt tattattgaa ttacaactaa taatcaatct 120
aaaagagggc accaccaatg atgtgttggt ggtaggaggg tgctgggttt gtcaaagcaa 180
gttggaacaaa gggcaacaat tgtttagtgg gtaagagggg tgcggggtta gccgcaaact 240
gctttagtagaa aggcagcaac tgttgctgtg tcaagaagga agcagcactt gctgcagcta 300
gctcgctaaa tggcagtagt atttgctgct gcaaataagc agcggggttc agtgcggcca 360
attggttaaa tggaagaagt tgttgttgct gagagtaggc agtagctagc tggctaaatg 420
gtaatagttg ttgctgcaaa taagcagcag ggttcagtgt agacagttgg ttgaatggaa 480
gaaattgttg ttgctgagag tagggagaaa ggtttgccag agctacttgg ttgatcacag 540
gtagcagcag ttgctgcagc tgttggtccc tgatgggttg taccaatgac tgcaccaaag 600
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<210> 12411

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N7-E7

<400> 12411

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aaattttttt aaaaaaattt ttttttggtg ttgttaaaaa ggggtgtggga aggggttttg 180
ggaaaaaaaa aatttaaaaa aataaaaaag ggggatggaa aatttttttt ttttgggggg 240
gaaaaagggg gaaatttggg tgggggtttt ttttggtttt tgaatttaaa gggggggggg 300
gaaaaaaatt ttttgggggg agggggggagg 330

<210> 12412

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N7-E8

<400> 12412

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ggaaaaaaaaaaa aaaattttgt taccctttca tttttttttt taaaaaaaaag gttttttttt 60
ttcccttttt tttaaaaccc ttgggggggg gggcccgga attttttgga accctttgg 120
caaatttttt tttggtccgg gcctttttta ccccccccg aaaaaccccc ggggggggga 180
aaattgggca atttttttcc ctctgggaa gaaacttttg gggggaagtt tttttttccc 240
cctgcgggaa aaacttttt aaacggggcc cttttggttt tggggttttc aaaaaaaagg 300
gggttttaaaa aaaaaaat tttggaaaa 329

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<210> 12413

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N7-E9

<400> 12413

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tcaagcacia ggaacatgac accgtacagc tccggggatt tttaaaatga cctgacctac 120
aacacgaaaa ataagctttt tttgccccag aataggagag agaatcgcca gacaaggggt 180
aagaacagat attttgcca tcaggacttt ttggaccatg caacggcatc aatttcggat 240
tgggcactcc ggtacagctc gagccttttt gcaagggtag ttctgcgttc catgactgct 300
gggtcttcgt caagaagttt ggaaagctgc ttcac 336

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<210> 12414

<211> 610

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N7-F1

<400> 12414

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gggcaccatt atcgagtaca tctcatatgt aatctaaaag atggcacctc caacgatggg 120

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ttgctgccac aacaaggcag ggttcatcaa agagaactgg ttgtatggca gcaattgttg 180
 ctgctgtagg aaggcaacga ccaatgggtt agccaccgct agtggattaa gtaactgttg 240
 tcgctgttgt aggtacgcag cagagttoga cacagtcagt tggttgaatg gaagcagctg 300
 ttgcaagtag gcagcagggt ttgccacagc tagctgagtc agagctggta caatctgttg 360
 cagcaactgt tgttgcagggt atgtagggtgc attaaccaca gcgagagggc tagatgaaat 420
 cagttgttgc tgttgtagggt aggcggcagg gttcaccatg gctagttgac tgagcgtggt 480
 tagaaactgt tgcaattgtt gttgttgttg gtatgcaact atgtttgccg gagcaagtgg 540
 gttggatgca agcaactgct gttgcaagta ggcgacaggg ttcaccacag ctagttggct 600
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<210> 12415
 <211> 600
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-099-Q1-N7-F11
 <400> 12415

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 aaaactttat tattgaatta caactaataa gcaatctaaa agagggcacc accaatgatg 120
 tgttgttgggt aggaggctgc tgggtttgtc aaagcaagtt ggacaaaggg caacaattgt 180
 tgtagttgta agaggggttc ggggttagcc gcaaactgct ggtagaaagg cagcaactgt 240
 tgctgtgtca agaaggaagc acggcttgct gcagctagct ggctaaatgg tagtaatatt 300
 tgctgtgtca aataagcagc gaggttcagt gcggccaatt ggttaaattg aagaagttgt 360
 tgttgatgag agtaggcagt agctagctgg ctgaatggta atagttgttg ctgcaaataa 420
 gcagcagggt tcagtgtaga tagttggttg aatggaagaa attgttgttg ctgatagtag 480
 ggagaaagggt ttgccagagc tacttggttg atcacaggta gcacgagttg ctgcagctgc 540
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<210> 12416
 <211> 388
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-099-Q1-N7-F12

<400> 12416

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gggggggggg gcccctgggg tgtggtccgg ggggggggtgg ggggggttttt ttgttggggg 360
ggggggcctg ggggggtggg gggggggg 388

<210> 12417
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N7-F2

<400> 12417

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cctcctgggt ttgtaaaaac aaggggggtg gatggggcca atttgtgcac ttgtaagagg 180
gggccccctg tgggggcccc ggggtggggg aaccggaaca actgggggtg ttttaaaaag 240
ggggcagggg ttacaccacc ttgccgggtt aatgggggaa gttggggggg ccggaaaaaa 300
accggggagt tcaatgcctc ccgttggttg aaaggaaaaa aatcgtgggg ggggggacca 360
ggtggctggc tcaatggggg ctttttttct cgcaaataaa aagaccaggt caatgccgct 420
tgggggggtg aaggaaaaaa ccgctgttg 449

<210> 12418
<211> 612
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N7-F4

<400> 12418

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ggtagaacgc tgttgggttt gtcaaagcaa gttgggtgaa tggcagcaat tgttgagtt 180
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gtaaataagc agcagagttc aatgctgcca gttgggtgaa tggaagaaat tgctgggggt 360
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cagccagttg gttgaatgga agaaactgct gttgctgaga gtaggcagca aggtttccta 480
gcacaagttg ttgtagtgtg tgtgccttga tgtttgtgca caacaaatgc accaaaggta 540
actgctgtaa tagggctgac ggttggttga ggaacaaggt gataaagtaa gagcctgctg 600
cgttgcctgt tg 612

<210> 12419

<211> 623

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N7-F6

<400> 12419

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gtaggaggct gctgggtttg tcaaagcaag ttggacaaag ggcaacaatt gttgtagttg 180
taagagggtt gcgggggttag ccgcaaactg cttgtagaaa ggcagcaact gttgctgtgt 240
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caaataagca gcgggggttca gtgcggccaa ttggttaaat ggaagaagtt gttgttgctg 360
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gttcagtgtg gacagttggt tgaatggaag aaattgttgt tgcgtgagagt agggagaaaag 480
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gatgggttgt accaatgact gcaccaaaga tagggctggt gattgttgaa acaacaaggc 600
gataaagtat gttgcttgct gcg 623

<210> 12420

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N7-F7

<400> 12420

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tgtttacatt tacatacaac tgggatcgca ccaataaacg cactagcaca aagctggcca 120
tcgatacaat gccctgtca agtcctaaac gatgaagtgc agtatgacgc aaaacagtat 180
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catcttcgtt gctttaacac actgactctg cctttccctc ttttcgogct ggcatcacc 300
acaccagctc ggaaaatcct tctggtatct cttcatctct ctgaacacag agctccggca 360
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<210> 12421

<211> 629

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N7-F9

<400> 12421

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gtttgccaga gctacttggt tgatcagagg tagcacgagt tgctgcagct gttgtgccct 540
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gataaaaagta tgttgcttgc tgcgattgc

629

<210> 12422

<211> 600

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-099-Q1-N7-G1

<400> 12422

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taaactagcg agctaggtag ctagtacgag gtcaccattac attattacta cagtacatag 180

tttcctcagt agtagacacc gccggcagct gcgttgcaag ggcagggacc tggctgctgc 240

agctgcaggc cgcacatcgc cgtcagctgc tgcgctacct gggccgccat cagcgccgag 300

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caactgtggcg agccgtaggg cgtcgccgcc gggctgcact ggtgcctcag gaactcgacg 480

caactggccca ggaacgggct gccgacgctg ccgacgcgcg aagatccgaa ctgcntgcac 540

gggcttagct gcgggtggtg agtgggggtat tgccatggct gcngetgctg ctgcggcggc 600

<210> 12423

<211> 650

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-099-Q1-N7-G10

<400> 12423

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aaaaaacttc attattgaac tataactcat aagcaatcta aaagagggca ccgccaatga 120

tgggttggtg gtagaacgtt gttgggtttg tcaaagcaag ttggttgaat ggcagcaatt 180

gttgcagttg taagaggggtg ccagcgttag gcgcagcgtg caggtagaac ggcaacaact 240

gttgttgtgt caagaaggca acagggctca catcagctag ctggctgaat ggtggtagct 300

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ccaaaggtaa ctgctgtaat agggctgacn gttgttggag gaacaagggtg ataaagtaag 600
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<210> 12424

<211> 574

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-099-Q1-N7-G12

<400> 12424

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gatgcgtgtc tgtcttcttg agcattctag ctgcttgccg tgggaaaatg gtgcctctct 480
tttcggtgac catggatttg aatttttatg gacagcttca ggcgcttggc taggaaacct 540
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<210> 12425

<211> 158

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N7-G2

<400> 12425

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aattacaact aataagcaat ctaaaagatg gcaccgccaa tgatgtgttg ttggtagaag 120
gctgctgggt ttgtcaaagc aagttggaca aaaggcag 158

<210> 12426

<211> 624

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-099-Q1-N7-G3

<400> 12426

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actgttgggt ttgtcaaagc aagttggttg aatggcagca attgttgcag ttgtaagagg 180
gtgccagcgt taggcatagc gtgcaggtag aacggcaaca actgttggtg tgtcaagaag 240
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gcagcagagt tcaatgctgc tagttggttg aatggaagaa attgctgggg gtaggcagca 360
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tggttgaatg gaagaaactg atgttgctga gagtatgcag caaggtttgc tagcacaagt 480
tgttgtagtt gttgtgccct gatgttttgt gccaccaaat ggaccaaagg taactgctgt 540
aatagggctg acggttggtg gaggaacaag ggtgataatg gtaagatgcc tgttgcgatt 600
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<210> 12427

<211> 554

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-099-Q1-N7-G4

<400> 12427

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accgcggtgc tggccgtcac gcagctggcg tacgtgctga tgctgcaccg cgccgccgcc 180
 gccgcgtacg ctgatgatga agccgatgct accgcctacg ccgacgctgg tggcgaccag 240
 tgcgagcctg gctgttccat cggcaccgag gacgacgccg acgccgactg ccagcgcgcg 300
 cagcagcagc agcatggccg ccaccaccac caaccaggc agggcggcgg gccctcgtgc 360
 agtgtcatgt gaactagcat acccatgcat gcatgtttgg tgggtgcgct ctcttgcctt 420
 gccattttcc gtgctcgtgt ttcgtctcgt ggaaaataag caatttaaac ttagtttaat 480
 ttcctgtatg tcatgtgttc ngtttagtgt gtatgcctnc tataatatat ggtcgtatgt 540
 gtgtgtcgac atgc 554

<210> 12428

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N7-G5

<400> 12428

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 aaggggttag ggggggaggt tataatgtgc tgggtggtca aagtggggat ggggtgtaagg 120
 tttatgtctg aaaacaatgc gtaataatgg tcatagttag ggtttgtggg ggatggttgt 180
 ccggagaatt tttttaaaagg ggggaagccc gggggttgaa ggtgaagggg ggggggggtg 240
 ttgggggagg gcacccaaat gaattggggg ggggggtttg gggggggaaa aaacgggggg 300
 actggggggg tttttggggt tttgtctcgg gggggggggg gggagaagaa aaaaaatcct 360
 tggggcgcgg gggggggggc cc 382

<210> 12429

<211> 643

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N7-G6

<400> 12429

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gatgggttgc tgccacaaca aggcaggggt catcaaagag aactggttgt atggcagcaa 180
 ttggttgcgc tgttaggaagg caacgaccaa tgggttagcc accgctagtg gattaagtaa 240
 ctggttgcgc tgtttagagt acgcagcaga gtccgacaca gtcagttggt tgaatggaag 300
 cagctgttgc aagtaggcag cagggtttgc cacagctagc tgagtcagag ctggtacaat 360
 ctggtgcagc aactggttgt gcaggtatgt aggtgcatta accacagcga gagggttaga 420
 tgaaatcagt tgttgcctgt gtaggtaggc ggcaggggtc accatggcta gttgactgag 480
 cgctggtaga aactgttgca attgttgttg ttggttggtat gcaactatgt ttgccagagc 540
 aagtgggttg gatgcaagca actgctgttg caagtaggcg acagggttca ccacagctag 600
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<210> 12430
 <211> 604
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-099-Q1-N7-G7
 <400> 12430

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 tgtaactaac atttgctgct acaacattct accctacaac attgaaggac aaaaagagc 180
 aaaaagaaag aaaaaatgcc ttggatgaca cttttattgc tccgatgac tccaacagac 240
 tgatctgcag atcacgcatg taaccagggt ctgatcattg tcgaatgtcg agacacacag 300
 ctgcatgtcg caggttcact tcatataact gttccactag ggagtaaagc atccttgatc 360
 actgtgacaa ttccaccttt gatgaagtac ccgctctgtc cccttgccgc ttcttgaaca 420
 ttgtcagcat tgagtatctt aacattgtct ccaattcgag cattcttgtc aatgattgct 480
 ctctgatgc atgaattttt cccaatacca ataggaatgc cacctttttc ggcaaggagt 540
 tttttatcag cttctgtctc atagtagtcc gcacccatta gtaaactgtc ctctatgata 600
 gcac 604

<210> 12431
 <211> 400
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N7-G8

<400> 12431

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ttaaaccctt cacgacaaga ggcacacgat cgccagcacc gcgccgatag tccaagatgc 180
agtgtccctt gctgcgttgt tcttctgata tgcaggcggt tggcgtccg cgtccggcga 240
aggagctggg gtagtgtgct ctggcgatgg cgctgggcga ctctggggcg caggtgcagt 300
cacaggagca ggggcaagtg ggggtgtggg tgcattgtgca ggcgacggcg acggcgagac 360
cgggtacaggg gcaggcgacc gcgagaccgg cccaagggca 400

<210> 12432

<211> 571

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N7-G9

<400> 12432

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atgttgaaaa aaaaaataac acaaagattc aaggataaat aagaaaacac ccatgcatcc 120
agatcacaag tgctcttctt atcctgcaga gtcaaaaatc attctcgaat agataacgca 180
tgttccatgc aatagtatgc cgcaaactct agtgatatat tctctgcccg ccaaaggtat 240
acataacaga aacctactat cctcccagc cagatcacat gaagtcgtac tcacgggggt 300
catcgtagcc accaccccg cgggggatga agtcgtcgtc tcctttctcg atgtggagtt 360
gcttcttttt cgctccttgt ttctttttgc ctgctgcagc ctctttctca gccttgatct 420
tctcgttagc aattgccgtc acggaagaag aatatctttg gcgtccgcac ctttcaacga 480
tgtcatggaa agtctcatga cattcttaag cagagccatg tagtgaaagc ttttctcata 540
ggggcgtagt ttgtttgcaa taagctccgc g 571

<210> 12433

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N7-H1

<400> 12433

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ggaaggggaag ggagggggaa aagagaaaaa aaagaggggg gggaggggga agccaaaggg 120
gcaaaaaatg aaaggggaag aagaaaataa agggggaaaa aaagagggag aaaaaggaaa 180
aggaacagaa aggaaaaaaa agaaaacggg caaaaaagag aaggggggga aaagaggaga 240
agagggggat aaagaagggg gacaagagtg aaaaaaaggg gggggaataa gaaaaaaga 300
aa 302

<210> 12434

<211> 624

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-099-Q1-N7-H12

<400> 12434

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ccatacatat gctaatacaca attcacacat gngaaactgg aaaatagggg ggttcacctc 120
tataaagaaa tggtccaatg cttttgtacc tctataacat cattttattta tttattttatt 180
tattttattta tttattttatt tttcaacgca tacatatggc aaagcgtgcc ttggcaactt 240
gggcaacgtc ttattcaatc tatttatata cttcgtttta ttcgatggcc ttctcttatt 300
tcattcgttt gcttcgactt ggatgccgaa tgcacttget cgctagcgaa aggcattccat 360
cagcacctgg gttccacgaa cactgctgct gtccttttcg gcacggtgaa tcgacctgtg 420
gcggggtcgt acgcagactg cctggctaac gcatccgatg aattcacctg cactggatgc 480
aactgaagcc gcagtgatgc aagatcaggg atttctatag acatttcgta cggacatata 540
ttgaagactg taacgacaca agagaatgtt tcatctatct gggccatata atgcctatca 600
tttcgtgcat cttcgatgct catg 624

<210> 12435

<211> 497

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-099-Q1-N7-H2
 <400> 12435

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tttttttttt tttttttttaa aaaagggggg ggggttgggg gggaccccc gggggggggg  240
gggggggggg ggggggccaa aatttttggg gggccccccc ccaaaggggg gggggggggg  300
gggatttttt tggggggggg gggggggccc cccccccag gggggggggg gggggggggg  360
ggtgaaaagg gaaccccccc gggggggggg ggggggaaaa aaaaaaaaaa aaaaaggggg  420
gggggggggc cccccccgg gggggggaaa aaaccctggg aaaaaagggg ggaaaaaggg  480
tggggccctt gccccgg                                     497

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<210> 12436
 <211> 483
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-099-Q1-N7-H6
 <400> 12436

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tggcagcaat tgggtgcagtt ggaagagggg gcccgcggtt ggcccaacgg gctgggagaa  180
cggcaacaac tgggggtggg tcaaaaaggg ggcagggtc accccaccta gctgggtgaa  240
tgggagaagt tgggtgccgt gtaaataagc cggagagtgc aatgccgcta gttgggtgaa  300
aggaaaaaat tgctgggggg gggcaacagg gagccggctg aaaggagtt ggtgggtgtg  360
caaataaaaa gccgaggtca atgaaccag gtgggtgaat ggaaaaaacc gctgttgctg  420
aaagtaggca acaagggttg ctagcacaaa ttgtttagt tgttgggcc cgatgttttg  480
ggc                                     483

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<210> 12437
 <211> 578
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N7-H7

<400> 12437

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gctggtgggt ttgtcaaagc aagttggttg aatggcagca attggtgcag ttgtaagagg  180
gtgccagcgt taggcgcagc gtgctggtag aacggcaaca attgtgggtg tgtcaagaag  240
gtagcagggc tcacaccagc tagctggctg aatggtagta gttgttgctg ctgtaaataa  300
gcaggagagt tcaaagctgt cagttggttg aatggaagaa attgctgggg gtaggcagca  360
gatagctggc tgaatggtag ttgttggttg tgcaaataag aagcagagtt caatgcagct  420
agttggttga atggaagaaa ctgttggtgc tgagagtagg cagcaagggt tgctagcaca  480
agttgttgta gttgttggtc cctgatgttt tgtgccaata aatgcaccaa aggtaactgc  540
tgtaataggg ctgatgattg ttggaggaac aaggtgat                               578
  
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<210> 12438
 <211> 616
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N7-H8

<400> 12438

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gctgctgggt ttgtcaaagc aagttggttg aatggcagca attggtgcag ttgtaagagg  180
gtgccagcgt taggcgcagc gtgctggtag aacggcaaca actgtgggtg tatcaagaag  240
gtagcagggc tcacaccagc tagctggctg aatggtagta gttgttgctg ctgtaaataa  300
gcaggagagt tcaatgctgc cagttggttg aatggaagaa attgctgggg gtaggcagca  360
ggtagctggc tgaatggtag ttgttggttg tgcaaataag aagcagagtt caatgcagct  420
agttggttga atggaagaaa ctgctgttgc tgagagtagg cagcaagggt tgctagcaca  480
  
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agttgttgta gttgttgtgc cctgatgttt tgtgccata aatgcaccaa aggtaactga 540
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 cctgttggat ctgtag 616

<210> 12439

<211> 624

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-N7-H9

<400> 12439

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 gtaggaggcc gctgggtctg tcaaagcaag ttggacaaag ggcaacaatt gttgtagtgt 180
 taagaggggtt gcgggggttag ccgcaaactg ctggtagaaa ggcagcaact gttgctgtgt 240
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 caaataagca gcgggggttca gtgcggccaa ttggttaaat ggaagaagtt gttgttgctg 360
 agagtaggca gtagctagct ggctaaatgg taatagtgtg tgctgcaaat aagcagcagg 420
 gttcagtgtg gacagttggg tgaatggaag aaattgttgt tgctgagagt agggagaaaag 480
 gtttgccaga gctacttggg tgatcagagg tagcacgagt tgctgcagct gttgtgccct 540
 gatggtttgt accaatgact gcaccaaaga tatggctggc gattgttgaa acaacaaggc 600
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<210> 12440

<211> 549

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N6-A1

<400> 12440

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catggggttgc tgccccaaca agacaggatt catcaaagag aaccggttgt atggcaccaa 240
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 caccttttgc aagtaggcaa cagggtttgc cccacctagt tgagtcaaag ctggtacaat 420
 ctggtgcaac aattgttggt gcaggtattt aggtgcattg cccccaacga gcgggctaaa 480
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<210> 12441
 <211> 532
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-100-Q1-N6-A11
 <400> 12441

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 ataaaacccc atttaaactg gtataaaggg aacgctgggg ggtccacaga acataacccc 180
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<210> 12442
 <211> 574
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-100-Q1-N6-A12
 <400> 12442

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 aataatagtt cttggttgct gggcggcatt nntaactaat ttcgccgcac gcctagcact 180
 tgatctcctt aagaccatga gagaaataga ggaatgtcgg attagtggca ccatccttgt 240
 aataggcgaa taccacagac gcatcatcct tcatggactc accaacaaaa aattggaggt 300
 ccttcagctt gctaaggaga aacttggttg caccctcgac accctttttg aactcatccg 360
 ctttctctgg ctccaacaca gcagtgagat tcttgatgta ttttttgatg taagacacaa 420
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 ccttcacagc tgtgtcatca acgctttcgt cctcaccacc ctggcgcatg ggattggccc 540
 caatgtccac atcaacagga ccttgggtga ccca 574

<210> 12443
 <211> 556
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-100-Q1-N6-A2

 <400> 12443

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 aagagaactg gttgtatggc agcaattgtt gctgctgtag gaaggcggcg accaatgggt 240
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 ggtttgcaac tacgtt 556

<210> 12444
 <211> 118

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-100-Q1-N6-A4
 <400> 12444

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 tttaaaatat tttaattaaa aaaaaaaaaa aaaaaaaaaat tttttttttt tttaaaaa 118

<210> 12445
 <211> 266
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-100-Q1-N6-A6

<400> 12445
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 agggganccg gccggacnga ancangnga acncacgcgc cggancgccg gnggacaccc 180
 agnnnnnccg gnaacgggca gaggcgnnaa ngcccccgcg ccgngcgncc gcancccncc 240
 agggcncagg cccggcgaca annccg 266

<210> 12446
 <211> 559
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-100-Q1-N6-A7

<400> 12446
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 taaaaaaata tatattcttc ttctcttcnt nttttttttc ttcttttttt tctttttttt 180
 ttttttttgt gcccttttcc tttctgtttt tttttgtctt ctcttttggg ttttcttttt 240
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 ttccccctttt gctctcttct ccttctctc ttcccttttc atccccctctc ttttggtctc 540
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<210> 12447

<211> 541

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N6-B1

<400> 12447

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 ggtgtaggta ttgtggaagg tggagtactc caaggggggg gtggcccctt ctgttctggt 180
 actacaaaac aagtagcacg ccgcggttca actagttcca gattttatga tctcccaccg 240
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 ttattatgtc ttcagtgggg ctttcttcac cctatcagat atccggtcag gtgcgttcgt 360
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 gacatcctcg tcgttaaggc catggccgag gccgcaatgc tgtggatagt gccttgcgct 480
 ggttcccat acgagcacat acttcacgtc cttgagcaaa cttctatgga tatgattgca 540
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<210> 12448

<211> 544

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-100-Q1-N6-B10

<400> 12448

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aagaaactaa gaaagcatgt ctcaacacag gatgggatgg gggggccactt nttcacagcg 180
catatatgtc atatactaataaatagatga aaccgtgccatc tggggccatc aaaatcagga 240
gcctttcaaaa accacctcaa ttgacaagaa tgcaatatga gagtgtcctg aaataatatt 300
taattaattc cgtcgcgaca acccaatgac ctacccgagc aaacaggcat cactgttggtt 360
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aaccatacat gttaggatcc tggggttgtg cataccact gccataagcc tcataacctt 480
gtccatagcc cccatagtag ccaccagcac cagcagccgc accccattga ttggattcct 540
gctg 544

<210> 12449
<211> 61
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-100-Q1-N6-B11
<400> 12449

aaaaaaaaatt tttttttttt gttccggggn nnnnnccnnn ccccccccc ccccccccc 60
c 61

<210> 12450
<211> 374
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-100-Q1-N6-B4
<400> 12450

gggggggggg gggtttttaa taatattttg ggggggtttt tttttttttt tttttttttt 60
tttttttttt tttttttttt tttttttttt tttttggttg aagggaacca ttgccccaa 120
tgttttttgc cccaaaaatt ttttttgggg ccgcggggc gctctttttt ttattaaaca 180
aanttttaaa tttttctttt tttttaatac ccagggttt ttttctacgg ggcccggatt 240
tcgaatgttt ttgggccttt tttaggggcc gggccctttg aaccgtggg gtgcccgggc 300
ccttttcgcc ccccccccc cggggggggtt ttgtgggggc ccgcgattgg acccccttct 360

tggtgggccc cccc

374

<210> 12451

<211> 519

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-100-Q1-N6-C1

<400> 12451

agaaagtact ttcttatttc tgggaagcca caaacatcag ataaaaaact ttattattga 60

actataactc ataagaaatc taaaagaggg caccaccaat gatgggttgt tggtagaaca 120

ctgctgggtt tgtcaaaggg ggtgggtgaa tggcancaat tgttgcagtt gtaagagggt 180

gccagcggtta ggcgcaacgt gctggtagaa cggcaacaac tgtggttgtg tcaagaaggt 240

agcagggttc acaccagcta gctggctgaa tggtagtagt tgttgctgct gtaaataagc 300

aggagagttc aatgctgcta gttggttgaa tggaagaaat tgctgggggt aggcagcagg 360

tagctggctg aatggtagtt gttgttggtt caaataagaa gcagagttca atgaacctag 420

ttggttgaat ggaagaaact gctgttgctg agagtaggca gcaagggttg ctagcacaag 480

ttgttgtagt tgttgtgccc tgatgttttg tgccaataa 519

<210> 12452

<211> 501

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-100-Q1-N6-C10

<400> 12452

aaaaaatact ttgtggtttc tgggaagcca caaacatcag nataaaaaac tttattattg 60

aactataact cataagaaat ctaaaagagg gcaccaccaa tgatgggttt tttttttaac 120

actncttntt tgttccagcc ccgggggttna atggcancaa ttgttgcant tgtaaaaggg 180

tgccagcggt aggcgcaacg tgctggtaga acggcaacaa ctgtgggttgt gtcaagaagg 240

tagcagggtc cacaccagct agctggctga atggtagtag ttgttgctgc tgtaaataag 300

caggagagtt caatgctgct agttggttga atggaagaaa ttgctggggg taggcagcag 360

gtagctggct gaatggtagt tgttgttgtt gcaaataaga agcagagttc aatgaaccta 420
 gtttggttgaa tggaagaaac tgctgttgct gagagtaggc agcaagggtt gctagcacia 480
 gttgtttagt ttgttgtgcc c 501

<210> 12453

<211> 460

<212> DNA

<213> Zea mays

<223> unsure at all n locations.

<223> Clone ID: LIB3061-100-Q1-N6-C11

<400> 12453

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 ccggtccatt attaaaccaa cactgacacg aacagcattt tcttttacia cctccatttg 120
 ggtattgccc gggcgaccca ngcccatcnn cngcttaaac gacctatgac ttactgacca 180
 ccacggagac ggagcacaag gtggagggtg ctctcctttt ggatgttgta gtctgctagg 240
 gtgcgggccat cctccagctg tttgccggcg aaaatcaaac cctgctgggc cggggggatg 300
 ccctccttgt cctggatctt cgccttcaca ttgtcgatgg tgtccgagct ctcaacctcc 360
 agggttatgg tttttccagt cagggtcttc acaaagatct gcataccacc cctgaggcgg 420
 agaacaaggt gaagggggct ctcttctggt atgtttagt 460

<210> 12454

<211> 132

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N6-C12

<400> 12454

tttttttttt tgtttaaaaa tttttttttt tttttttttt tttttttttt tttttttttt 60
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
 tttttttttt tt 132

<210> 12455

<211> 485

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-100-Q1-N6-C2

<400> 12455

tttgggggttt ttttttttta attttttttt tttttttttt tttttttttt taaaaaagga 60
ctttctttatt tctgggaagc cacaaacatc agataaaaaa ctttattatt gaactataac 120
tcataaaaaa tctaaaaaag ggccccaccg tgttgctggg ggtntntaaaa cactgctggg 180
tttgtcaaaa caaggtgggt gaatggccgc cattgttgcc gttgtaaaag ggggccagcg 240
ttaggcgcaa cctgctggta aaaccgcaac aactgtgggt gtgtcaaaaa ggtaacaggg 300
dtcacaccaa ctagctggct gaatggtagt agttgttgct gctttaaata agcaggagag 360
ttcaatgctt ctagttgggt gaatggaaaa aattgctggg ggtaggcagc aagtagctgg 420
ctgaatggta attgttggtt tttcaaataa aaagcagagt ttaatgaacc taattggttt 480
aatgg 485

<210> 12456
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N6-C4

<400> 12456

accagtatgc atcagggatg ggtagccgca aacgagagat tcatgaaata tagcaggccc 60
ccatgtttgc cgggtccagg ggccgggaga gcattttctt aaaaacccaa acagcgcccc 120
taaatactat ctggaggaaa aaaacgagcc gagagcccta aaacgcccc aaggagcatc 180
acacaaacca cattgctaca aaatccccca caacccaaaa tatagcgaac aacctatggg 240
gcaaaaccga acccccccg gggcagcaaa cacaacccca aatataaatg ttttatcagg 300
ggaccgcccc ccccatgctg ggggtcgaag gccctcccg gccaatataa aagccaagcg 360
agggaatccc atgggcacac aggagcggtc ccaaataaaa aacatttggg tccgccctca 420
ggaggctcgg agctttgggt aataccccct tgggtgg 457

<210> 12457
<211> 476
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-100-Q1-N6-C6

<400> 12457

tttctggggg ggggggggttt ttataaaaat taaaacgggg gtttattatg accatgcata 60
tattattggg cataccacac atgataatgt gtgtcgtctt actgcattat tacatattat 120
tagataggag agagtattgt tataaggaaa attttcttgg ggggtatgac tgggggggta 180
nnctnnaat ggcaneggaa actccacaag ggtagggtgcg gtagctgggc agctggtact 240
ggtagagtcc acccatggcc ggcatgttct gcgccatcat catggccatg gggttgagac 300
cctgggctgc cagcagctgc ttctgctgtt ggattagagc tggtttgtag aggctggtgt 360
tgggggtagg gggacgctca agctggatca tcattttgag gatgctgcgc gacggagtgg 420
acttccatca tgctaattct cttgtgggag tactgttgcc ggagcgggtg gaacat 476

<210> 12458

<211> 579

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N6-C7

<400> 12458

gtgggggttt tttttttatt tttttttttt ttgtttttca tccaaaaact tcattattga 60
actataactc ataagcaatc taaaaggggc cccaccaatg atgggttggt ggtaaaacac 120
tggttggttt gtcaaagcaa gttggtgttt gccagcgggt tttccagttg taagaggggtg 180
ccagcgttag gcatagcgtg caggtagaac ggcaacaact gttgttggtg caaaaaggca 240
gcagggtcga catcagctag ctggctgaat ggtagtagtt gttgctgctg taaataagca 300
gcaaagttca atgctgctag ttggttgaat ggaaaaaatt gctgggggta ggcagcaact 360
agctggctga atggtaattg ttgttgcaaa taagcagcaa agttcaatgc acccagttgg 420
ttgaatggaa aaaactgatg ttgctgaaag tatgcaccaa ggtttgctag cacaagttgt 480
tgtagttgtt gtgccctgat gttttgtgcc accaaatgga ccaaaggtaa ctgctttaat 540
agggctgacg gttgttgag gaacaagggt gataatggt 579

<210> 12459
 <211> 237
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-100-Q1-N6-C8

<400> 12459

ttttaaaaat tttgttgggg gttttttttt gccttttttc ttttttcatt tcctttggcg 60
 tttttttttt tttttttttt tttttgtct tctttttctt tttttttttt ttttctttcc 120
 ntcccttttt ttttttttgt cccgggggtc cccttccggt cntttttttt taatttttct 180
 ttttcatttg tttccttctt gttctgtttt tttgtttttt tttcccttcc tcttttt 237

<210> 12460
 <211> 291
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-100-Q1-N6-D1

<400> 12460

ggggggggtt tttgcaaaaa tatcaatata tgggactaga gctcaatcnt tttagaaaaac 60
 agtgtactaa tcaggactga aaacatggga taacgctctg aacttgagac gactaaccaa 120
 aaaagtgtag tcatnaggac acacattggg gggggggaca atccatgaga atgctctaag 180
 ctacagcgct ctagcccttc ttactctgaa acttcttgat gtagaactga aactgtttac 240
 cctgaaggat gaaccgatga cgtgaaacac actgatcagg gaccggaaga a 291

<210> 12461
 <211> 597
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N6-D11

<400> 12461

gtgtgtgtgg tttttgtac atgcaacgat gtgtgcaaac cattaactgt ccaattcagt 60
 gacagtgggtg cacacactgc atgttccagg ccagcaccgg cccatgggag tacaaaaaga 120
 atgtgcacaa tctgctgtga gttgacattt gtgtggaggg ctgggacggg cgctccatt 180

cagacggtag ggaatgtgca catgtaatga atatagatac aaccttcacc cttacctact 240
 aactaaaaaa gtgagaaaca gataatacta acatggcatc tccagcgaca ccagtctgta 300
 tagttgccac caatatcgt cattatcctt ttgaaggag gtgctggcat tatatcatat 360
 tagaaagaga ctgctgccgc ccaagcactc gagttcagtc attggccac tttcatcccc 420
 atgattctat gtcacctgat catttccatt tcgagggtga tcggtgtaat cttgaccatg 480
 atcacgaaca tctctgaaca tagagaagaa agaaactatg ccatcagaag caccgcctcc 540
 cagcaaccac agcaaaagga cccaaatggg ttgaggggagc ctgagcctgc aggggta 597

<210> 12462

<211> 486

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N6-D4

<400> 12462

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 aaactctacc gtaaaatata agtgtatgta tcgttggtgc ccatatctgt acaattgtca 120
 ttactagccc ccgagagacg caagccgttt tcatcaccac cagtagtcag ttccctttgt 180
 cagccgctcc attgcattct gaagcctctt ccacgagcca aatttgtaca ccttaccgaa 240
 gtttgctctc agcgtataat caaaattcga caaaaatcag ctcaacaaat gaatcaacac 300
 agcctcaaat ttagaattga caaaataact gtgtgaagct gttgttagct gatgtcactt 360
 gcaggccttg aacccaactg ttggggcagc tttttaaaaa gtcagcttc tcttgctatt 420
 tgaatatcag atggccaaaa ggtctgatat accactttac aaaggagacg aggaaagcac 480
 cccaag 486

<210> 12463

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N6-D5

<400> 12463

cagcgaaaga aatttattat tgaactataa ctcataagca atctaaaaga gggcaccacc 60

aatgatgggt tgttggtaga acactgctgg gtttgtcaaa gcaagttggt cgaatggcag 120
 caattggtgc ggggtgtaaga ggggtccaac gttaggcgca gtgtgcaggt agaacgggaa 180
 caaatgttgc tgtgtcaaga aggcagcagg gctcacagca gctagctggc tgaatggtag 240
 tagttgttgt tgttgtacat aaacatgaaa gttcaatgct gccagttggt tgaatggaag 300
 aaattgccgg gggtaggcag caactaactg gctgaatg 338

<210> 12464

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N6-D6

<400> 12464

ggtaggggtgt gttttttttt tttttttttt tttgtttttt ttttttttag atctctaate 60
 ttttattacc tgggaagttg cccatttcag tttgagaact ttattattac agtttaaagc 120
 ataaaaaaaa ctaaaagatg ggcccaccaa tggggggggg ggggaataag ggggtaggat 180
 tcgtcaaagc aagttggtta aatgggagca attgggtgtt ttgtaagaag gcgacattgt 240
 ttgccccatc ctgggggtag aacgggggca actgttgctg ttgcaagaag gcgttaatgt 300
 ttcccacaac ctgtgggtta aatggca 327

<210> 12465

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N6-D7

<400> 12465

gtgggttttt tttttaaaaa aatttttttt gttttttttt tttttttttt tttttttttt 60
 taaattaatt ttcttttctt tttttatcca aaataaaacc cccaaccaa tatttaaaaa 120
 taactataca aaaacaaca atatttgggg ccgtggggaa aaacaaaaca acttggttta 180
 tcccttttaa agagtgaaaa caaaacaaaa cctccttaa ttaaccctga aaacaatttt 240
 tttccataaa aaaacttttc aactgccaat caacataaaa aaaagtctta aacctttctt 300
 accaaaacaa aattacccta acaacaaaat ccctagaaaa aggaccaat atcgaaaaaa 360

cctctcaciaa ccagactttt gaacacaaat ttcttaaccc ccccttttta aacccacac 420
 tttaaaaa 428

<210> 12466
 <211> 274
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N6-D8

<400> 12466

gggggggggg ggttttttaa aaaaatttgg gggggggttt tttttttttt tttttttttt 60
 tttttttttt ttttttttct ttatttttaa ctcaaaaaca ctccctcaca ccaacattaa 120
 tcaaatttta atcaataact ttaatggggg gggcgcgggg gggaattaaa ttcctaccga 180
 aaacgacttt ccccttttat aaataaaaaa agaaacaaaa aaaacacaaat caaaaaaaat 240
 ttcacaaacc tggaaaaagg aaaaaaaaaa atag 274

<210> 12467
 <211> 511
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-100-Q1-N6-E10

<400> 12467

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 acaagttaaa gaacacggct ctctttgatc ctctgtattg aagctactag tttgctacga 120
 aaattgaaaa gctttatata nacatgtgtg gggctcgacc ggggggtaca tatgaatgca 180
 acctcaataa taccaaacga atagactaac caatcaccac caccacagga gcaaccagcc 240
 aaacatttct tgcagcactc tgggcgacct ggaacgataa tcccggaatg cagcaaattg 300
 ctgcttacgc gatacgaagg aagccgtcct atccaatgct ttgttcttta acaaattcac 360
 cccattctaa atttgtccag ctacgccagc acgagcctgc agtgtctcgg tacgtttgct 420
 tttttccatt tgttccacca cccactctat gccagatttg atccccctgc catcatatgc 480
 agatacagcc tgaaatgata tggcctctca t 511

<210> 12468
 <211> 66
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-100-Q1-N6-E11

 <400> 12468

attaccacgc ggggcgttgn cccttnnnnt tttttttctt ttttcctctt tctccttttt 60
 ttttttt 66

<210> 12469
 <211> 553
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-100-Q1-N6-E2

 <400> 12469

tgtttttttt ttttttttat tttttttttt tttttttttt tttttttttt tttttttttt 60
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
 tttttttttaa aggaaaaaaa tatttttggg gggggggggg gnnnaaaaaa aaatattttt 180
 tcttttaaaa aaaggggggg ggtaaaaaaa aagggggggc gaggggggaa agatttaaaa 240
 aaaaaaaaat tttaattttt ttttaaaagg gggggggggg tttggggatt ttaaaaaaag 300
 ttggtggggg gttttaaaaa aaaaaaaaag aatttgaaaa aaaaaaaagg gggagggggg 360
 ggttaacctt aaaaatagga gatggaattt gggggggaaa aattttttct taaaaggagg 420
 ggggtaaaaa ggtgggggaa aaaaagggga aaaggatatt tagggggaaa aattttaatt 480
 gttaaaaaaa ttaaaaaaaa aaagaagggt gaagcaataa aaataaaaag gggggggggt 540
 taaagggaga gag 553

<210> 12470
 <211> 173
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-100-Q1-N6-E3

<400> 12470

cgctcaaagc agcacagtgt gggaattaaa ctgatcaatt tacagcatga tgtatcccca 60
aatccaggcc cccaatgtcg attcaacatg taactaacat ttgctgctac aacattctac 120
cctacaacat tgaagggggc gagggggcaa aaagaaagaa aaaatgcctt tgt 173

<210> 12471

<211> 498

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-100-Q1-N6-E4

<400> 12471

ggtgggggttt tttttttttt gcgacatcga accacttctt ttatacaaaa gcacgcagca 60
gagagctaaa tggaacacag cgtcatcatc atgggccgta accatcgtcc catcacgcat 120
ctagtacaac gccgctacca taccatacgg gcatgctnng agggggcccc ggattcacgc 180
ttccttattt tcagttcagt tcggaagggg atccaaatcc agagtcacca ccggcaaaga 240
cgagcttggg cgcgcgcgca cacacacaca cactactggc cctctgccag cggtcgggc 300
tttggcgccg acgaaaacac cttggcgatg cgttcgggtg ggatggcggg gaggtacttg 360
gccccgcggt agccgtgctc cgcggtggtt gcgaccgcc tgttgtactt gtcgggcca 420
tgcgcggggg ggggcaccac gatctcctgg acgtgcggga acaccgcag ggccgttcag 480
cgagcgccag gcgagagc 498

<210> 12472

<211> 280

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N6-E5

<400> 12472

gtgggggggg gggtttttaa aaaaataaaa tggggggggt ggcgagaaaa atctaaacca 60
ataaatggat tatttcaagg aaacacatgc cgggaggagg gcaccattat cgagtacatc 120
gcaaagttaa tctaaaagaa ggcacctcca gagggggggg ggggggggcg caacaagaca 180
ggagtcatca gagagaaccg ggggtatggc agcaattggt gctgctgcag gaaggagcgc 240

accaaggggc tagccacggc caatggagaa aggaaccgga

280

<210> 12473

<211> 590

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N6-E7

<400> 12473

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cgattagcac gcgcgcgcga cggctagctt atattagagc gcgtcatcag cctagcagtt 120
tattttttat aaatgcatac atgcagacgg ggggggggga tctctgggtgc ttgtgcttgt 180
gctgactgac tgactggctg gctgggctct atgactgatg aggtcgacgg atgtgtcata 240
tatatatctg atctcatcat ggcctgaaga aagccgggtg ggggcgtccg gtgccctgga 300
aggaggtgtt cttgaggtgc tccggagctt cctcgaacga gtggcgccct gccagcgaca 360
ggatcttctt gtcggcgggc atgaagtagg ccatcccggc caccgtggag acgatgagcg 420
cctgaccggg ggggttgatg ttggccttgg cccacggcag catccgcacg ctcgcgaggg 480
tgggaatcgc ggaggcgata gtcgccactg ctgccgcctt agctccggca agagtcgcct 540
ctgcagacca cacacacaca catacatata tagcgtagt catttcgagc 590

<210> 12474

<211> 206

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N6-E8

<400> 12474

gagccaaaaa ggggggggacc acctatccaa ttcataaaat gggggggggg gggggaccac 60
cccaaagcg ccagaggggg gaccacaaa aaaaaaaaaa acaaccagca gcggcccaaa 120
cagagaccaa aaacccaaaa aaggtcaaag acgccggcaa aaaaagagca ccaccacacc 180
acagagagcc ccaaccacca aaccgg 206

<210> 12475

<211> 210

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-100-Q1-N6-E9

 <400> 12475

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 tttttttttt tttttttttt ttaaaaatat taattaatac catctaacc cataaaaaaa 120
 aaattttaat tcaaaaaaac atttatgtgg gggggggggg gagaaaaacc aaccaaaaaa 180
 aaataaaaaa aaaaaaaaaa aaaaaaacac 210

<210> 12476
 <211> 413
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-100-Q1-N6-F1

 <400> 12476

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 ttaaaaagg gggggctttt ttggaaaacc gggggggggg gggaaaacgg gggggggaaa 180
 caaaattttt aaaaaaaac ccccaaagt gtgtgggggg ggggggggga tttttggggg 240
 gggagggggg gaaccccccc ccaatggggg ggggggttggg gggtgga aaaagcccc 300
 cccttttggg gagggggggg ggagcaaaaa aaaaaaacg gggggggggg ggggcccccc 360
 cccgatagag ggagacaccg gtttaaaaat cggggggaga gtgtgggggg ggg 413

<210> 12477
 <211> 577
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-100-Q1-N6-F11

 <400> 12477

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 caccattatc gagtacatct catatgtaat ctaaaagatg gcacctcaa cgatgggttg 120

ctgccacaac aaggcagggt tcatcaaaga gaactgggtg tatggcagca attgttgctg 180
ctgtaggaag gcaaccacca atggggttagc caccgctagt ggattaagta actgttgtcc 240
ctgttgtagg taccagcaa agtcgacac agtcagttgg ttgaatggaa gcagctgttg 300
caagtaggca gcagggtttg ccacagctag ctgagtcaga gctgggtacaa tctgttgag 360
caactgttgt tgcaggtatg taggtgcatt aaccacagcg agagggttag atgaaatcan 420
ttgttgctgt tgtaggtagg cggcagggtt caccatggct agttgactga gcgctggtag 480
aaactgttgc aattgttgtt gttgttggtg tgcaactatg tttgccacag caagtgggtt 540
ggatgcaagc aactgctgtt gcaagtaggc gacaggg 577

<210> 12478
<211> 161
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-100-Q1-N6-F2

<400> 12478
ggtagtaagt tttgacctta gangncgtgg gggggggggg gttttacaat aattttgttg 60
gggtgtttatt attatttgat ttaaattggtt aattaggtca ttgatacact gacacaatgg 120
tgatgggtga gattatgtta ttaaaatatt taaatgagta a 161

<210> 12479
<211> 290
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-100-Q1-N6-F3

<400> 12479
gtttgttttt ttttttattt tttttttttt ttattttttt tttttatttt tttttttttt 60
tttttttttt ttattttttt tatttttttt tttttttttt ttttttattt tttttttttt 120
tttttttttt tttttttttt tttttgggtt gaaggggggtt tttgtttttt tttggggaaa 180
accttgcggt ttggggggccc ctttttcggg ggcccttttat ttttaattta aaaaaggggc 240
ccttccaccg tgggtttttg ccttggcaaa acaggttttt ttaaaaagaa 290

<210> 12480
 <211> 355
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-100-Q1-N6-F4

 <400> 12480

 cagacaaaaa actttattat tgaactataa ctcataagaa atctaaaaga gggcaccacc 60
 aatgatgggt tggtggtaga acactgctag gtttgtcaaa gcaagttggt tgaatggcag 120
 caattggggg ggtggtaaga ggggtgccagc gttaggcgca gcgtgctggt agaacggcaa 180
 caactgtggt tgtgtcaaaa aggtagcagg gctcacacca gctagctggc tgaatggtag 240
 tagttgttgc tgctgtaaat aagcaggaga gttcaatgct gccagttggt tgaatggaag 300
 aaattgttgg gggtaggcaa caggaagctg gctgaatgga agtcgttgtt gttgc 355

<210> 12481
 <211> 214
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-100-Q1-N6-F8

 <400> 12481

 gggggggggg gtgttttaaaa aaaaaacagg gggggccggt tttttcctta ggatttaact 60
 tataataaat cctgacgggg gttactgctc ccattgatcc tcattccatt ctggttnatc 120
 catTTTTTTT ttttttncce annttttttg gggtttgtcc gggggceccc nnnnccectt 180
 taatctntac ccaaaaaaaaa aaaaacaaac accc 214

<210> 12482
 <211> 516
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-100-Q1-N6-G10

 <400> 12482

 ggggtggggt ttttttttaa aaaatattcg ggggaaaaaa atttattatt gaactataac 60
 tcataagcaa tctaaaagag gcaccaccaa tgatgggttg ttggtagaac actgctgggt 120

ttgttaaatac aagttgggtca aatgggggta ttgttccggg ggtaaaaggg tgccaacgtt 180
 aggcgcagtg tgcaggaaaa acggcaacaa atgttgctgt gtcaagaagg cagcagggct 240
 cacagcagct agctggctga atggtagtag ttgttggtgt tgtacataag catgagagtt 300
 caatgctgcc agttgggtga atggaaaaaa ttgccggggg taggcagcag ctagctggct 360
 gaatggtagt agttgttggt gctgcaaata agcagcagag ttcaatgcag ctagttgggt 420
 gaatggcaga aactgttggt gctgaaagta ggcagaaagg tttgctagca ccagttgttg 480
 tagttgttgt gccctgatgt tttgtgccaa caaatg 516

<210> 12483

<211> 143

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-100-Q1-N6-G11

<400> 12483

ctcaaaaaaa aattatttgg aactataact cataagaaac taaaagaggc accaccaatg 60
 atgggttggt ggtagaacgc tgctgggttt gtcaaagcaa gttggtttat tttcatcaat 120
 tntttctttt tggtttgtcc ggg 143

<210> 12484

<211> 603

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N6-G12

<400> 12484

gggggggggg ttttttttgc agcaccaagg aagcgccatt ttttccttag gattaactta 60
 gaacaaatcc tgacaggagt aacagcatcc atcgatccac agtccatgct ggttgatgca 120
 tgggtctgct ggagccgagg atgaacacgg ggctagaagg gacacagagc gaccttgcaa 180
 tcaaaaacac agatgggcaa caacaaacga gacgaacgaa gataaacctt ctggactagg 240
 gtaaacaatca cggtagcgaa caggataact tggccgcgcg ggccccaccg ctgagttcct 300
 ccagttcccg tcggagttgc cgtagccgcc gccacggttg ccaccgccgt agccgccacc 360
 accaccaccg tagccaccgc cgccaccgta gccgccgccg ccaccgccgt agccgccgcc 420

gccatcacgg ggcccgccac cgccgtagcc gccgcctcca cgggcaccac cgtagccgcc 480
 gccgccgcct ccacggccgc cgcgggactg ggccctggtg acggtgatgt tgcggccgtc 540
 cagcttcttg ccgttcatgc cctcgatggc gttccgcate gcctcctccc tgggagaggt 600
 gac 603

<210> 12485

<211> 513

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-100-Q1-N6-G2

<400> 12485

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 cataagaaac taaaagaggc accaccaatg atggggttgtt ggtagaacac tgctggggtt 120
 gtcaaagcaa gttgggttgaa tggggggggg gggggggggt gtaagagggt gccagcgta 180
 ggcgcaacgt gctggtagaa cggcaacaac tgtgggtgtg tcaagaagggt agcagggctc 240
 acaccagcta gctggctgaa tggtagtagt tgttgctgct gtaaataagc aggagagttc 300
 aatgctgcta gttgggttgaa tggaagaaat tgctgggggt aggcagcang tagctggctg 360
 aatggtagtt gttgttggtg caaataagaa gcagagttca atgaacctag ttggttgaat 420
 ggaagaaact gctgttgctg agagtaggca gcaaggtttg ctaacacaag ttgttgtaat 480
 tgggtgtgcc tgatgttttg tgccaataaa tgc 513

<210> 12486

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-100-Q1-N6-G4

<400> 12486

tctcttgtgg ggggggtttt ttttaaaaaa aattttgggg gaacaacatg catatcacag 60
 ctgcttcatt attcagggtc gaacaaacag gctcagctag ccccggcgtt ttattgtcac 120
 tattgctcgg tttctcccc aagggtgcta tgtggggggg tgcggggggc tgaaggcccc 180

ctccttctc cnatgccacc taacctaaca ggtgaggttg ggcccggggt caacgccgag 240
ctggcggcag tactgcctgt agtagccgac gcgcgcgttc atttgggcgg ggttgttccc 300
gccgcactca agggccccgt tgatggccct ggtggggggg ccgaaccctt gcgggaccac 360
cccgggcag ctgttcatcc aaaaccagaa cgccttcttg aacgccacca cgggagtacc 420
gagccaccc 429

<210> 12487

<211> 99

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-100-Q1-N6-G5

<400> 12487

ggaagccaca aacatcanac aaaaacttta ttattgaact ataactcata agaaatgtaa 60

aagagggcac canccaatga tggggttttt tttttttaa 99

<210> 12488

<211> 352

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-100-Q1-N6-G6

<400> 12488

gggggtttta atacaaaaaa agtgtgggga ggtgagcata tngatacatt ttacatttc 60

tggggccttt ttgccagtat ataagtacaa catcagctac aattcttccc gcaacagatc 120

accttttttt tcaccataat tttgggggtt tgcagggggg tattnttnnn tntantatta 180

ttggccaaca aaaacataaa aaaaacaaca gcggtcccat ttgcaacaac agtgtacaga 240

ctagctaaat ctaaaaatgg aaataaaaaa tcaaattaac gaaaaggtgt ttactaaatg 300

tttttttgcc tgcccttggt ttttttgtgg aagaaaacag acgaacaaaa tg 352

<210> 12489

<211> 536

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-100-Q1-N6-G7

<400> 12489

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ggaaacacat gtcggtatga gggcaccatt gtcgagtaca tctcatatgt aatctaaaag 120
atggcacctt caactatggg ttgcttcaag ggggttttgc tcaggagaa ctgnttgat 180
ggcaccaatt gttgttgctg atgcaagaag gtagegacca atgggttagc cactgccaat 240
ggattaagta actgttgctg ctgtttagg tacgcagcag agtttgacac agccagttgg 300
ttgaatggaa gcaactgttg taagtaggca gcagggtttg ccacagctag ctgagtcaga 360
gctggtacaa tttgttgcat caactgttgt tgtaggtacg taggtgcatt gccaccgcg 420
agcgggctag atgaaagtag tttaggttag acggcagggt tcaccatggc taggtgactg 480
aacacttgca taaactgttg ccactgttgt tggtgctggg atgcaactac tttcgc 536

<210> 12490

<211> 522

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N6-G8

<400> 12490

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tagcatcatg ggacatcatt gattatcaat atcacgagat tccagtagct atttcagttg 120
atctaaaaaa aaaaacggtt aaaagctggg cctgaagggg gacctcaact gaacctaaaca 180
gctggggcat ttccaaaccg cagttcaagt ttacagtaat cagggtcaaa acaggctggg 240
aaaaaacagc ctaaactaac cagctgccaa cccctatcc cattcccaaa catcatgagg 300
aaacacaaat cacatttatg atgtggaaca agcttcaagc tttgggagga cgctgcgcca 360
tgcacccgca atgtcttttag ctagcttagc ctgacccttg gcaaattcat ggaatgcgag 420
tccaatatca gctgtctttt gtcctggaa acgagcaagc tcttcattca ttagtctaac 480
tatgtgtgca aacttcttaa tagcctcctc actggctgct tt 522

<210> 12491

<211> 595
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N6-H12

<400> 12491

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acaggggtcc aaagcaaac cataccacct tatccattta cgtacacact cacacgtcgt 120
cgcaacttgc aatacacaca cgacagcttg gggatgcggg gacgatttgc tatgaccggc 180
atacagtccc atgtttgtgaa gcctaagctt cctctcgtca gaaaggatct ttgcaaaccg 240
tgcgagcata ccagcatagg ttagtagggc acggccatct ctggcgctcg tctcgacgca 300
gtcgtcggtc ttataatcgt cgtcgcttag tggcttatgc agaaggttct ctgcaatctt 360
aaccagccct cgcagattct tctccgtcga gaggtcagct gccacagccg ctatgggtat 420
gttgcgggtcc tgaacacgca gcagttggtc cgagcaccgc atcgctttga aaaggtcggc 480
gacgtagctg tccgtcatgt ctgagctcgc gtgcatgaac atctgcagca agggcacggc 540
gttctccccg ccgagccatc cgaagatgcc ccaacttgcg acacggcacg cgtcg 595

<210> 12492
<211> 520
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N6-H2

<400> 12492

gaatagaaaa tatagaggtg taatacttat ttactgaaag gaacaccata tcagcttggg 60
gaccttatta ttacgagcat aataacatag aaaaatctaa gaagatggca ccaccaatgg 120
ggggccggtg caataagggg gtgggggggg ggagagcatc ttgcctaaat ggtaacaaac 180
ggtggtgtgt gtgaagaagg caacactgtt tgccacattc tgtgggtaga atggaatcaa 240
atgatgttgt tgcaggaagg cattaatgtt tcccacaact ggtgggtaaa atgtcaacca 300
atgttgttga ataaagaaag caacaatgtt tgccacagct tgcacataga atggcagaat 360
ctatagaatc agtaagaagg cataacggct cgcgacaagt gtgataaatg gtagtagatt 420
gagtgccctg aaaaacatag caaggttcac cccaacttgg tgattgaata gaataaactg 480

tagatgctgg aggtaaccaa gaaggttctc ttgaactact 520

<210> 12493

<211> 258

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N6-H4

<400> 12493

gggtggggggg gggggggtttt ttataataaa aaatggggggg gggtattttct gggacgccac 60

aaacatcatt caaaaaactt cattattgaa ctataactca taagcaatct aaaaagggga 120

ccaccaatat gggttgttgt aaaacatttt gggttgtcgg gggagtgttt aaatggcagc 180

aattgttgca gttgtaaaag ggtgccaggt taggcataac ttgcaggtaa aacggaacaa 240

ctgttggttat gtaaaaag 258

<210> 12494

<211> 377

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-100-Q1-N6-H8

<400> 12494

ggggggccatt tttttcctta ggatttaact tanaataaan cctgacgggg gtaacagcac 60

ccatcgatcc ccantccatg ctggttgatg cttttttttt tttganccnn atatgggggg 120

tcgcgggggg ctnacacana nccaccttca ntcaaaaaca caaatgggca acaacaaaca 180

ctagacgaac gaagataaac actctggact tgggttaaca acacggtcgc gaacaggata 240

acttgggggg gcgggcccca ccgctcagtt cctccatttc ccgtctgagt tgccgtagcc 300

tccgtctcgg ttgccacctc tctatccgcc ttccccacca ctctatccgc cggcggtccc 360

accgtagccc ccgccac 377

<210> 12495

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N7-A1

<400> 12495

cgagataaat ctcaatcaat attttgatta tttctaggaa acacacgtcg gtttgagggc 60
cccattatcg agtccatctc atttgtaatc taaaagatgg cccctccaac gatggggttc 120
tgcctcgaca agacaggatt catcaaaaaa aactggttgt ttggcaacaa ttgttgctgc 180
tgtaggaagg cggcaaccaa tgggttagcc actaccaatg gattaagtaa ctgttgctcc 240
tgttgtaggt cccagcaaa gtcgacaga gtcagttggg tgaatggaag cagctgttgc 300
aagtaggcaa cagggtttgc cacagttagt tgagtcaaag ctggtacaat ctgttgcaac 360
aattgttgtt gcagggtttt ttttctttg cccacaggga gcgg 404

<210> 12496

<211> 500

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N7-A10

<400> 12496

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aatggccccct ccaccattgg gtggttgcag ggcgggggtcc ttaaaaggga cggggtggtt 120
tggcaccatt ggtggtggtt gttccgggaa ggtaccaccc aatgggttac cccctgccat 180
tggtttaatt acctgtggcc cttgttgtgg gtccccacca aatttggccc caccggttg 240
gttaattgga accacttggt gtaagtagcc acaaggtttg gcccacttg gttaattcaa 300
acttgggtcca tttgggtcca ccacctgtgg ttgtaggtcc ttagttcctt tgccaaccgc 360
aaccggctta aataaaatta tttgtaggtg accggcaggg tcaaccttgg ttagttacct 420
gacccctgcc ttaaaactgtg caacttgtgg ttgttcttgg tttccacttc cttccgccaa 480
accaggtggt ttgattccaa 500

<210> 12497

<211> 499

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N7-A11

<400> 12497

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 tgttcatgaa actttcataa aaccccatg agatcggtt aaaccaagc actaatgggt 120
 gcacagaaca taaccccaaa gcaaggcatg cggctttgac ctgaaaaccc atctccagtt 180
 ctggtttagct attagtcgat taaactactc gacgtgcagc taccgctttg atttctgtgg 240
 tttgaaaatg ttgtgcttgt agtacttcag ttcggcgatg ctttctttaa tatcatccat 300
 tgccctgtgg gttttttgct ttcttggagt ttggttcctt tctttcgggt accatcgat 360
 gcataaagcc attatactac tcacattgac aattacatga aagaagaccg ctgcaagctg 420
 tggcatgtac ttcttcagaa atagaaaatc cacataaaca gaattcccag ctaataatgg 480
 agtgccctgaa tttatgtgc 499

<210> 12498
 <211> 583
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-100-Q1-N7-A12
 <400> 12498

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 tttttctcaa acaaaccctt ttgagttcaa ttcagccagg acaactatag ttttggatat 120
 aataatagta catagatagt acccaacatg ggtaactaat ttcgccgcac gcctagcact 180
 tgatctcctt aagaccatga gagaaataga ggaatgtcgg attagtggca ccctccttgt 240
 aataggcgaa taccacagac gcatcactc tcatggactc accaacaaaa aattggaggt 300
 ccttcagctt gctaaggaga aacttggttg caccctcgac accctttttg aactcatccg 360
 ctttctctgg ctccaacaca gcagtgagat tcttgatgta ttttttgatg taagacacaa 420
 atgattttct gtcaaaagga ggttgctcct gtagacggaa tgtgtcaaca atatcaacca 480
 ccttcacagc tgtgtcatca acgctttcgt cctcaccacc ctggcgaggat ggattggcac 540
 caatgtccac atcaacagga ccttgggtga cccactttcc etc 583

<210> 12499
 <211> 633
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-100-Q1-N7-A2

<400> 12499

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gggcaccatt atcgagtaca tctcatatgt aatctaaaag atggcacctc caacgatggg 120
ttgctgcctc gacaagacag gattcatcaa agagaactgg ttgtatggca gcaattgttg 180
ctgctgtagg aaggcggcga ccaatgggtt agccactacc aatggattaa gtaactgttg 240
tcgctgttgt aggtacgcag cagagttcga cagagtcagt tggttgaatg gaagcagctg 300
ttgcaagtag gcaacagggg ttgccacagc tagttgagtc agagctggta caatctgttg 360
caacaattgt tgttgacagg atgtaggtgc attgcccaca gcgagcgggc tagatgaaag 420
cagttgttgt tgttgtagct aggcggcatg gttcaccatg gctagttgac tgagcgttgg 480
cagaaaactgt tgtagctgtt gttgttgctg gtttgcaact acgttcgccca gagcaagtgg 540
gttggtatgca agcagctgct cttgcaagta ngcggcaggg ttcaccatgg cttagtggct 600
caagtgctgt aggaactgtt gttgctgttg cgt 633

<210> 12500

<211> 630

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N7-A3

<400> 12500

ggaaatataa cttcttattt ctaggaggcc acatacatca gccaaaaaac ttcattattg 60
aattacaact aataagcaat ctaaaagagg gcaccgcca tgaatgtgttg ttggtagaag 120
gctgctgggt ttgtcaaagc aagttggaca aagggcagca actggtgcag ttgtaagagg 180
gttgcggggt tagccacaaa ctgctggtag aacggaagca cttgttggtg tgtcaagaag 240
gaagcggggc ttgttgtagc tagctggcca aatggtagta gtatttgctg ctggaaataa 300
gcagaggggt tcagtgcggc caattgggta aatggaagaa attgttgctg ctgagagtag 360
gcagtagcta gctggctgaa tggtagtagt tggtgttgct gcaaataagc agcaggggtc 420
agtatagaca gttggttgaa tggaagaaat tggtgttgct gagagtaggg ggaaagggtt 480

gccagagcta cttggctgat cactggtagc acgagttgct gcaactgttc tgcctgatg 540
 gtttgtacca atgactgcac caaagatagg gctggcgatt gttgaaagaa cagtgtgata 600
 aaagtaaagt gcttgttgcg attgcttgct 630

<210> 12501

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N7-A4

<400> 12501

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 tttgggcccc cccaaatttt ttttttttga aaggcccccc caacaagggg gggtttgaag 120
 aatagggggg gaattgcctt ggccctgggg gggaacttga aggggaccgg gggttgctct 180
 ttttttgggg gatgggggtc cccggccctt ggggggtttt tttttgggga atttttgctg 240
 ggcaagccct tgggggcctt tttgccggac ttttttaggg ggggcttttt gtgggggctc 300
 ttttttggg ggttttcttt ggggggtatc tttgggcctt cccctgtag cctgttcaat 360
 ggtgggcctt cccgtgtttt tcggggcggg ggggttgccc cgggattttt gggctgggtc 420
 ccgggggggt 430

<210> 12502

<211> 622

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N7-A5

<400> 12502

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 aaataaatgt accaaaatgc tagctgggat aaaactggct acaatgccat tacaacattt 120
 cacaggtcta catggcgacg ctgggattct tgttcggcga atgacttgat gatatgaggc 180
 tgctgctgct gtgcctgcgg tagtagagag agcctggaga tgatgagccg cgccacgttc 240
 tctgctgcta cagcaccgt ctctatggcg ctgcgggcgc tctcaaagggt gttcacgtag 300
 tacagctgct tcccgccaa cactatcgga gcaaactcct ctggggcttg gtagtgcggg 360

taagcagccc agttgatccg gatcgtctct atccgagccc tgaagatctg atccagcaaa 420
ccatcatcca gctttgcccg tgaaaacatc ttgtacgccg ccatgtcgcc ttcgctgtac 480
ctcttcagaa cagagatgca ggagaaaggg atatcagga gctctagggt accaatcagc 540
tctggaatat ctgatgccga gttcagaccc aaaatatccc ggttcaatat gcctctcaca 600
aaggtcgcat gtgtgtgctg ca 622

<210> 12503
<211> 559
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-100-Q1-N7-A7

<400> 12503

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gtccgccgct aaacaccggg gcgaaatttg gtcgggctcc cggcactcca cgtcaccacc 180
accatctaca accatctaca gctcgtcgtg gtcgctgca acaccgccgt cagcgtcacc 240
gccagggggc cgcgccgacc gctggtacac ggccgacacg atgggggttg acacggcctc 300
cacctccttg agcttctctt cgtagtcctc cttctcggcc gactgggttg cgtccagcca 360
ctccagcgcc tccttgaggg cctcctccac cttctccttc tcctccgctt ccagcttgct 420
cgcgagcttg tccttgctgc ccaccgtgtt cttcatgttg tacacgtacg tctccagctg 480
gttgcgggcg tcgatccgct ccttcacctt cttgtgctcc tncngaaact cctccgnctt 540
ccgcaccatg cggtcgatc 559

<210> 12504
<211> 620
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N7-A8

<400> 12504

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gtaggaggcc gctgggtctg tcaaagcaag ttggacaaag ggcaacaatt gttgtagttg 180
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 caagaaggaa gcacggtttg ctgcagctag ctggctaaat ggtagtagta tttgctgctg 300
 caaataagca gcgggggttca gtgcggccaa ttgggttaa at ggaagaagtt gttgttgctg 360
 agagtaggca gtagctagct ggctaaatgg taatagttgt tgctgcaa at aagcagcagg 420
 gttcagtgtg gacagttggt tgaatggaag aaattgttgt tgctgagagt agggagaaaag 480
 gtttgccaga gctacttggt tgatcagagg tagcaccagt tgctgcagct gttgtgccct 540
 gatggtttgt accaatgact gcaccaacaa taggctggcg attgttgaaa caacacgacg 600
 attaaagatg ttgcttgctg 620

<210> 12505
 <211> 201
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N7-B1

<400> 12505

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 gtgtaggtat tgtggaaggt ggagtactcc aaacatgggg ggggcccattg atgatttggt 180
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<210> 12506
 <211> 638
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N7-B10

<400> 12506

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 agcaatcaca ggggagcgcc acttggtcac agcgcatata tgtcatatac taataaatag 180
 atgaaaccgt gccatggggc catcaaaatc aggagccttt caaaaccacc tcaattgaca 240

agaatgcaat atgagagtgt cctgaaataa tattaatta attccgtcgc gacaacccaa 300
 tgacctaccc gagcaaacag gcatcactgt tgttgcgtgtt gctgctgtgc agctgggtgc 360
 tgttggtaat tgggataacc gccataagcg ccataaccat acatgttagg atcctggggt 420
 tgtgcatacc cactgccata agcctcataa ccttgtccat agccccata gtagccacca 480
 gcaccagcag ccgcacccca ttgattggat tectgctgag gctgagcctg cttgttcgac 540
 aggcttctac cccatgaaag tcgaacattc tgtgcaccaa tcaaggcccc ttgcagcatt 600
 agcagcgctt gttcagcaga atgtctggtt acgaactg 638

<210> 12507

<211> 446

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-100-Q1-N7-B11

<400> 12507

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 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
 tatttgggaa cttttttttt tttttttttg gttttgtttt ggggggantt tttccccccc 180
 gggccccccc cccaaggag agggggcccc cctttttccc caatctcccc cccttatggc 240
 cccccccggt tgtttgcccc ggggttttcc ccccccaat tttttttttg gggggggccc 300
 cccccgccc ccgggggggg gcctgggtcc ggggttggtg gccccccctt tgccgggggg 360
 gggcggggtt tttggcccc caaaccccc cccccgggc cttttggggg ttttcgtggt 420
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<210> 12508

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N7-B12

<400> 12508

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ggggggggtcc ccctttttct ttttgggggg ggttttttgg tgggggggggt ttgtgggggt 120
 gtgggtgtct gggggggttt tgtgttttct tccgtttttg ctgtgttttt tgggtggggg 180
 ggttttttggg gggggggggg ggggtttttt ggggggggggt cttctccttt ttggtggggg 240
 ggggtttgggg gggttgtggg tggggggccct tttgggcttg ggggtttttt tgttggcgcc 300
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<210> 12509

<211> 483

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N7-B2

<400> 12509

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 ttggggactt gaagcacata agaatctaga aaggggcttt gttatttctg ggaagccaca 180
 aacatcagac aaaaaacttt attattgaac tataactcat aagaaatcta aaagagggcc 240
 ccctccaatg atgggttggt ggtcgaatgc ttctgggttt gtcaaagcaa gttggttgaa 300
 tggcagcaat tgttgcagtt gtaagagggt gccagcggtt ggcgcgcgt gctggtggaa 360
 cggcgacaac tgtgggtggt tcaagaaggt ggcagggctc acaccagctg gctggctgta 420
 tgggtgggggt tgttgggtgct gtgttttagt ttttgagttc aatgctgcc a gttggttgaa 480
 tgg 483

<210> 12510

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N7-B3

<400> 12510

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 gctgctgggt ttgtcaaagc aagttggaca aagggcagca actgttgcag ttgtaagagg 180

gttgcggggt tagccacaaa ctgctggttg aacggaagca cttgttggtg tgtcaagaag 240
gaaatggggc ttgtttagc tagctggcca aatgggtgta gtatttgctg ctggaaataa 300
gcagaggggt tcagtgcggc caattgggta aatggaagaa attgttgctg cttcgagttg 360
gcagtagctt gctgtt 376

<210> 12511

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N7-B4

<400> 12511

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ggaaacgggt tatgataaag gaaaaaaaaac tttaaacttt tactccttta aaaaacaaaa 120
gatcgcccc cccggaaaca aaatttgcaa tggtttttga cttttttaaa aaaccgcccc 180
ttttaaaaaat ttggggtcgg ggggggtttt tccaccccc ccccatgagg agacattatg 240
ttgaaaaaca atttcacccc ctttttgggg gggaccccc ttggaaaagg ggccccaaca 300
gccaaaaacc cttcccaaaa aagggggggg ggaacgaaac ctagcctgga aacctatatt 360
atttttacgt ttgccacctg gggg 384

<210> 12512

<211> 584

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N7-B5

<400> 12512

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aactataact cataagaaat ctaaaagagg gcaccaccaa tgatgggttg ttggtagaat 120
gctgctgggt ttgtcaaagg ggggggggtt aatggcagca attgttgag ttgtaagagg 180
gtgccagcgt taggcgcagc gtgctggtag aacggcaaca actgtggttg tgtcaagaag 240
gtagcagggc tcacaccagc tagctggctg aatggtagta gttgttgctg ctgtaaataa 300
gcaggagagt tcaatgctgt cagttgggtt aatggaagaa attgctgggg gtaggcagca 360

gatagctggc tgaatggtag ttgttgttgt tgcaaataag aagcagagtt caatgcagct 420
 agttggttga atggaagaaa ctgctgttgc tgagagtagg cagcaagggt tgctagcaca 480
 agttgttgta gttgttgtgc cctgatgttt tgtgccaata aatgcaccaa aggtaactgc 540
 tgtaataggg ctgatgattg ttggaggaac aaggtgataa agta 584

<210> 12513

<211> 481

<212> DNA

<213> Zea mays

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<400> 12513

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 atcaatttag gggggggggg gggggaaaac tgtttttggg aacccccatt gccttcccc 120
 cgccggctcc cccctttttt tttaaaaaaa ggaaaaaggt ccttcccccc ccttcagttt 180
 aaggggtaac ccttagggaa cccgctcccc caccgggttt ttgataatgc ctttgctgc 240
 caaaaataac cggccggggc ggggtgggaa cttttttgcc cacaaccgcc ccgggggggt 300
 tcaagcccg ggctgggtgc cttatccccg gggggggccg gctttggggg gcccccatc 360
 ggccccetta ttttttcggc ccgggacttg gggggcttgg gcagcttggc cccaacttg 420
 cccaggggg gagccccaac ccttttatta agggggttgg gggggacata cacctttttt 480
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<210> 12514

<211> 300

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-100-Q1-N7-B7

<400> 12514

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 ncancnnncg ncanggacc cncacagaga aacaaggccc cgaagggcc ngannacgcc 120
 agnngnacgg acacgaacnc ancagggnc gccagcagca gcaggggggc ggacggaanc 180
 angngaacn cagcgcccg ancgccgng ggcacccagn nnnncgggna acgggcagag 240

gcnnaaagc cncgcgccc ngcgnccgca ncccngcagg gncaggccn gncgacaann 300

<210> 12515

<211> 623

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-100-Q1-N7-B9

<400> 12515

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aattaaccat ttattcagtc cttcaatgta acgcgaacac agcgggttac tcggtcccag 120

ttcgcaacac acccagggac agacctgggt ttcgacactc gggagaaggg gggggggggg 180

cttaagcaaa ctgaaacggg gaacacaaga gaagagaaac tagggaaacc gtaacaacta 240

gccaactgct ctccatccag tagcgatgag gagatcgagc aacgcttatg gggccatgct 300

gccagttcca cagcctgcct tggttgggtc ccagttccct tgcaccgcat ctgagtcttc 360

aggacacca cccaccctg gctatggagc tctgggtgca cggtcgagtt aaccggtctt 420

ggcgactccg ttggagagga cgggtttctc tgggtgctgc tgggccacct ttgctgcnta 480

ggaaacaaca ggagcagtga tgccgttctc tgccgggagcc ttcaccggct tcacctctgc 540

cgtgacacca tctggttccg acggattggg cttgccattt gcaggttcct gtggtcgttc 600

accgtgacag aaacgggggt cta 623

<210> 12516

<211> 531

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N7-C1

<400> 12516

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aactataact cataagaaat ctaaaagagg gcaccaccaa tgatgggttg ttggtagaac 120

actgctgggt ttgtcaaagc aagttggttg aatggcagca attgttgagc ttgtaagagg 180

gtgccagcgt taggcgcaac gtgctggtag aacggcaaca actgtggttg tgtcaagaag 240

gtagcagggc tcacaccagc tagctggctg aatggtagta gttgttgctg ctgtaaataa 300
gcaggagagt tcaatgctgc tagttggttg aatggaagaa attgctgggg gtaggcagca 360
ggtagctggc tgaatggtag ttgctgttgt tgcaaataag aagcagagta caatgaacct 420
agttggttga atggaagaaa ctgctgtttc ttttagtagg cagcaagggt tgctagcaca 480
agttgatgta gttgttgctg cctgatgttt tgtgccataa aatgcaccaa a 531

<210> 12517

<211> 477

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-100-Q1-N7-C10

<400> 12517

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aactataact cataagaaat ctaaaagagg gcaccaccaa tgatgggttg ttggttgaac 120
actgctgggt ttgtgagggg gggggggttg aatggcagca attggtgcag ttgtnagagg 180
gtgccagcgt taggcgcaac gtgctggtag aacggcaaca actgtggttg tgtcaagaag 240
gtagcagggc tcacaccagc tagctggctg aatggtcgtn gttgttgctg ctgtnaataa 300
gcgggagagt tcaatgctgc tcgttggttg aatggaagaa attgctgggg gttggccgca 360
ggtggctggc tgtatggtgg ttggtgttgt tgctcgttag gtgcagagtt caatgaacct 420
tgttggtcga atgggggaaa ctggtgtggc tctgcgttgg ctgcaaagtt tgctggc 477

<210> 12518

<211> 484

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N7-C11

<400> 12518

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ccggtccatt tttaaaccac cactgacacg aacagcagat acttttataa cctccatag 120
gagggggggg ggggcgacgc aggcacatcg gcagcttaaa cgacccatga cttactgacc 180
accacggaga cggagcacia ggtggagggt gctctccttt tggatgttgt agtctgctag 240

ggtgcggcca tctccagct gtttgcggc gaagatcaga cgctgctggt ccgggggggat 300
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cagggttttg gtttttccag tcagggtttt cactaagttc tgcgttccac ccctgtggcg 420
gtttacaagg ggaagggtgc tttccttctg ggtttgttgt tcgggagagt gcggccttcc 480
ttca 484

<210> 12519
<211> 468
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N7-C12

<400> 12519

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tttttttttt tttttttttt ttttttttgg gggggggggg gttttttttt tttttttggg 180
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aaaatttttt aaaagccac caaaaaatag ttttgggggg ggggtgtttt ttttgggggg 300
gggggggggg ccccccccc ctttgggggg ggttttgttt tttttttttt gtcccccccc 360
ccctgggggg ggggggtaaa gggccccac ccgaagggg gggggggggg gcgtccccgt 420
ctttttgggg gcgccatcct tgcgtttttg gggggggggg gggggggg 468

<210> 12520
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N7-C4

<400> 12520

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ggcggggccc gagaccggg gaggattgtt taaaaaacc aaaaagggcc cctaaaaact 120
tttttgggga gaaaaaccag cccggggccc tcaaaccccc caaaagggcc ttaaaaaaac 180
cacattggta caaaaacccc cccaacccaa ttttttggga aaaacccttg gggcaaaacc 240

caaccccccc ggggggggga aaaacaaccc ccaaaattta tgttttataa ggggaccgcc 300
 ccccccatgc tgggggggtcg agggcccccc gggcccattc aatatccaaa gaaggggatc 360
 ccctgggccc acagggacgg gcccaaaaaa aaaacaattg ggtccgcccc caaaaagcct 420
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<210> 12521

<211> 607

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N7-C6

<400> 12521

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 ttcccaaata tcatgaatca gtagtagggc ggaatggcag cggagacgcc acaggggttg 180
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 gccagcgggc tgcactgcgg ctgcctcagg tactccgcgt aggggtacag cccgccggcg 540
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 cagggca 607

<210> 12522

<211> 573

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N7-C7

<400> 12522

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 aatgatgggt tggtggtaga aactgttggt gtttgtcaaa gcaagttggt tgaatggcag 120

caattgttgc agttgtaaga ggggtgccagc gttaggcata gcgtgcaggt agaacggcaa 180
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 agcaaggttt gctagcacia gttgtttagt ttgttgtgcc ctgatgtttt gtgccaccaa 480
 atggacaaaa ggtaactgct gtaatagggc tgacggttgt tggaggaaca gggtgataat 540
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<210> 12523

<211> 529

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N7-C8

<400> 12523

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 taccagttcc ggcaaatttt ggtgggtgta gctttacatg gcgtccttgg aaagccagtt 180
 gtgggtcgag attccccgag cattggtgag ctcataaacg ccgtttcccc gctcgaacac 240
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 gccggggcgc ttcatttcat tgagaagagt actgacgcac cgtgcacctg tagcacccaa 360
 aggatgtcca agagccattg caccgccatt aacattgact ttagcaggat caagttccaa 420
 cttcttgcag cagtagacat actgagatgc aaaagcctcg ttgatttcga aaagatcgat 480
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<210> 12524

<211> 513

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N7-D1

<400> 12524

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tgagtggagt accactgctt gaatggggca gta 513

<210> 12525
<211> 482
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N7-D11

<400> 12525

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tgcacatgta atgaatatag atacaacctt cacccttacc tactaactta aaaagtgaga 240
aacagataat actaacatgg catcttcagc gacaccagtc tgtatagttg ccaccaatat 300
tcgtcattat ctttttgaag ggaggtgctg gcattatatt atattagaaa gagactgctg 360
ccgcccagc actcgagttc agtcattggc ccactttcat tccatgatt ctatgtcacc 420
tggtcctttc catttcgagg ggggtcgggg ttatcttggc ctttatcacc aacatttttt 480
ga 482

<210> 12526
<211> 526
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N7-D3

<400> 12526

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accctgctgg gtttgtcaaa gcaagttggt tgaatggcag caattgttgc agttgtaaga 180
gggtgccagc gttaggccca gcgtgctggt agaacggcaa caactgtggt tgtttcaaaa 240
aggtagcagg gctcacacca gctagctggc tgaatggtag tagttgttgc tgctgtaa at 300
aagcaggaga gttcaatgct gccagttggt tgaatggaaa aaattgctgg gggtaggcag 360
caggtagctg gctgaatggt agttgttgtt gttgcaaata aaaagcagag ttcaatgcac 420
ctagttggtt gaatggaaaa aactgctggt gctgagagta ggcagcaagg ttgctagca 480
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<210> 12527

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N7-D4

<400> 12527

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caactctac cgtaaaatac aagtgtatgt atcgttgtgt cccatatctg tacaattgtc 120
attactagcc cccgaagacc caagccgttt tcatcaccac cagtagtcag ttccctgagg 180
cagccgtccc attgcattct gaagcctctt ccacgagcca aatttacaca ccttaccgaa 240
gtttgtcctc agcgtgtaat caaaattcga caaaatcag ctcaacaaat gaatcaacac 300
agcctgaaat ttagaattga caaaataact gtgtgaagct gttgttagct gatgtcactt 360
gcaggccttg aacccaactg tgggggcagt tttttaaaaa gctcaccttc tcttgcgtgtg 420
tggatatcag atgg 434

<210> 12528

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N7-D5

<400> 12528

cagcaaaaaa aactttatta ttgaactata actcataagc aatctaaaag agggcaccac 60
caatgatggg ttgttggttag aacactgctg ggtttgtcaa agcaagttgg tcgaatggca 120
gcaattgttg cagttgtaag aggggtgcaa cgttaggcgc agtgtgcagg tagaacggca 180
acaaatgttg ctgtgtcaag aaggcagcag ggctcacagc agctagctgg ctgaatggta 240
gtagtgttg ttgttgtaca taagcatgag agttcaatgc tgccagttgg ttgaatggaa 300
gaaattgccg ggggtaggca gcagctagct ggctgaatgg tagtagttgt tgttgctgca 360
aataagcagc agagtgaat gcacgctaga gggatgaatg gcaggaact 409

<210> 12529

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N7-D6

<400> 12529

attactggga agttgcacat tttagtttga gaactttatt tttacagttt aaagcataaa 60
aaaatctaga agatgggacc cccaatgggg ggggtggtgca ataagggggg aggattcgtc 120
aaagcaaggt ggtaaagtgg cagcaattgt tgttggttga agaaggggac attgtttgcc 180
acatcctgtg ggtagaatgg gagcaactgt tgctgttgca agaagggggt aatgtttccc 240
acaacctggg ggtaaaatgg ca 262

<210> 12530

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N7-D7

<400> 12530

gttccccccc tttggttccg ggcctttttt ttcccggggg aggcgcccc ctcctttgtc 60
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gggggttccc tttggggggg ggggttccaa gcttgtccct ccgttcgtga cccggggaac 180
cttttgtggg ccttggggcc cccttccggg ggcggggggc ctcgggggag ggccgtgggc 240

ctggcccccc cccggggggg gccccacgg ggggggtccc gggggggggg ggcctgggcg 300
ggccccctt gggggggggg gcttttgggc cccgggttct gggggcccc cttttggtgc 360
ccgggggctg ggagggggcc cttgtttaag ggcctgttg agggggggcc gccgggccgt 420
gccctccc 428

<210> 12531

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N7-D8

<400> 12531

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tttttttttt tttttttttt ttccccccca gccccccac ccccagagcg gggccgcccg 120
agggggggcc ccccggggg gggggggggg ggggggcaag gcgggggggg cgggggccgg 180
gcggggggga ggggcaaagg gggggggggg ggggggggga aagggggggg gggggggggg 240
gggggggcgg gccggggggg gggggcgggc ccacacaaag ggcccgcccc ccgccccagg 300
gggggccctc ggggaggcca ccccccccc cc 332

<210> 12532

<211> 172

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N7-E1

<400> 12532

gccgcgcccc ggagccccct ttttttctt ggttttactt ggaacaaatt ctggccgggg 60
ttacagtctt cttctttcca catttcatgc tggttggtgc ttgggtctgc tggggccgtg 120
ggtgaacaca ctttttacat ctgtcccggt gcgaccttg gttttaaaac ac 172

<210> 12533

<211> 566

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N7-E10

<400> 12533

aattccttct tcgcttttct ttcttctttt ttttttatca caaacaagtt aaagaacacg 60
gctctctttg atcctctgta ttgaagctac tagtttgcta cgaaaattga aaagcatcat 120
atagacatgt atgcttgcca cctttaggta catatgaatg caacctcaat aataccaaac 180
gaatcgcttc accaatcacc accaccacag gagcaaccag ccaaacattt cttgcagcac 240
tctgggcgac ctggaacgat aatcccggaa tgcagcaaata ggctgcttac gcgatacgaa 300
ggaagccgtc ctatccaatg ctttgttctt taacaaattc accccattct aaatttgtcc 360
agctacgcca gcacgagcct gcagtgtctc ggtacgtttg cttttttcca tttgttccac 420
cagccagtct atgccagatt tgatccccct gccatcatat gcagatacag cctgaaagta 480
tatggcctct catccagttc tttatgcaga aatttagcca attcttcttc atcaatggct 540
ccaggtaaata cctgtttgtt tgcaac 566

<210> 12534

<211> 101

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-100-Q1-N7-E11

<400> 12534

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tggcgctggc gcccggtggg ttgcgtggct cgtgtttgct c 101

<210> 12535

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N7-E2

<400> 12535

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tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
tttttttggg gggaaaaccc cccccccaca aaaggggggg ggggggggta aatggggccc 180

ccccaaaaaa gggggggggg cccccaaaaa aaggggggacc ccgggggaaa cccccaaaag 240
 aaaaaaaaat tccccctttt cccccggggg gggggggggc ccccgggttt ttaaaaaccg 300
 gcggggggggg ttttgggggt ccccccaagc cccccccccc cccccggggg gggggggggg 360
 gggcccccg ttttgcgggc ggggcccccg gggggcccc cggcccccg tggggggggg 420
 ggtcgaagcg gtgggc 436

<210> 12536
 <211> 235
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N7-E3

<400> 12536

cgctcaaagc agcacagtat ggtaattaaa ctgatcaatt tacagcatga tgtatcccca 60
 aatccaggcc cccaatgtcg attcaacatg taactaacat ttgctgtac aacattctac 120
 cctacaacat tgaaggacac aaaagagcaa aaagaaagaa aaaatgcctt ggatgacact 180
 tttattgctc cgatgatctc caacagactg atctgcacat cgcggtgtg accag 235

<210> 12537
 <211> 571
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N7-E4

<400> 12537

gcgacatcga accacttctt ttatacaaaa gcacgcagca gagagctaaa tggaacacag 60
 cgtcatcatc atgggtccgta accatcgctc catcacgcat ctagtacaac gccgctacca 120
 taccatacca ccatctttaa ctggcccccg gattcacgct tccttatttt cagttcagtt 180
 cggaagggtga tccaaatcca gagtcaccac cggcaaagac gagctcgcgc gcgcgcgcac 240
 acacacacac actactggcc ctctgccagc ggctcggcct ctggcgccga cgaaaacacc 300
 ttggcgatgc gttcgggtggg gatggcgggg aggtacttgg ccccgcgta gccgtgctcc 360
 gcggcggtcg cgaccgcctt gttgtacttg tcggcccagt gcgcggcggt gggcacgacg 420
 atctccgcga cgtgcgggaa caccggcagg ccgttcagcg agcgccaggc ggagacggcc 480

aggtgctccg ccgcgggctc gtaccgcacg tagagggtgct tggccacggg ctccacgcgg 540
ccgtacacgt cccgcgcac cggctccgtc a 571

<210> 12538
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N7-E5

<400> 12538

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accattatcg agtacatctg atatgtaatt taaattatgg cccctccaac tatggggggc 120
tgcttggaac agacaggatt catcaaagag aaccgggttg atggcacaaa ttgttgcttc 180
tctaggaagg cagccaccaa tgggttatgc cctgccaatg gattaagaaa ctttaggcct 240
ttttgcaggt cccaacata gttctacata tctagttggt tgaatggaag cacgttctcc 300
atgttggtca caaggtttgc 320

<210> 12539
<211> 575
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-100-Q1-N7-E7

<400> 12539

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gcgcgacggc tagcttatat tagagcgcgt catcagccta gcagtttatt tttataaat 120
gcatacatgc agacatggat ggcacatct ctggtgcttg tgcttgctgct gactgactga 180
ctggctggct gggctctatg actgatgagg tcgacggatg tgtcatatat atatctgac 240
tcatcatggc ctgaagaaag ccgggtgggg gcgtccggtg ccctggaagg aggtgttctt 300
gaggtgctcc ggagcttctt cgaacgagtg gcgcctcgcc agcgacagga tcttcttgct 360
ggcggcgatg aagtaggcca tcccggccac cgtggagacg atgagcgcct ggccggtggg 420
ngttgatgtt ggccttgccc caccgcagca tccgcacgct cgcgaggggtg ggaatcgcg 480
aggcgatagt cgccactgct gccgccttag ctccggcaag agtcgcctct gcagacacac 540

acacacacac atacatacat agcgtagtc atttc

575

<210> 12540
<211> 297
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N7-E9

<400> 12540

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gggggggggg gtccacacgg gggggggggg gggggggggg gggggggggg gggggggggg 120
gggggggggg gggggggggg gggggcgggg gggggggggg gggggggggg gtggggcggt 180
tggggggggg ggggggggtc gggggggggg cgcggggggg cggggggggg ggcgcggggc 240
tcctgtgtga aggggggggt ggggggtggc cgcggttggt ggggtggggg gggggcg 297

<210> 12541
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N7-F1

<400> 12541

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aattttttaa aaaaaaaaaa ccaaaaatgg aagggggggg ggggggtttt tttggggggg 120
ggggggggaa aaacccccaa aagggggggg ggtttggggc tttgtaaaaa acaccccccc 180
cctttgaggg aaggggggga aacaaaaaaa aaaaaagggg gggggggggg gcccccccg 240
ggtttggggc aaaaaacccg tggaacaatg gggggggaaa agttgggggg taaaccaccc 300
caaaaaaaaa aaaaaaatgg ggggcaaacc cgtccgtcg gcgggggggt tcaaaagggg 360
tggggaaaaa aagttcaaaa aaggggccgc cgtggtctaa gaaaaaaaaa acaacttttt 420
aaactaggcc cccctgctta ggaataaaac cccccccctg 460

<210> 12542
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N7-F11

<400> 12542

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accattatcg agtacatctc atatgtaatc taaaagaggc acctccaacg atgggttgct 120
gccacaacaa ggcaggggttc atcaaagaga actggttgta tggcagcaat tgttgctgct 180
gtaggaaggc aacgaccaat ggggttagcca ccgctagtgg attaagtaac tgttgccgct 240
gttgtaggta cccagcagag ttcgacacag tcagttgggt gaatggaagc agctgttgca 300
agtaggcagc agggtttgcc acagctagct gagtcagagc tgggtacaatc tgttgcacca 360
actgttggtg caggtatggt ggtgcattaà ccacagcgag agggctagat gaaattagtt 420
gttgctgttg caggta 436

<210> 12543

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N7-F12

<400> 12543

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gccaaacctt ttaatgtgtg gggctttttt ggtaaacacc gtttttgggg ttaacgggt 120
ggggggacac aatttttcaa ttgccaaccc cggggagggg attgctgctg cctgggttat 180
tttgggggtt tgggtgggcc aagccgcaca ttggtggggg gttttgtgct gctttcaaga 240
ttgccccccg actttgggtg gcttgggtggg ttccccatta ctacatggg tgttggtgtt 300
gctcctcctg ggttttgggt tggaccttgt tggtttttgg ttgggggttg ttttgggggc 360
caatt 365

<210> 12544

<211> 568

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-100-Q1-N7-F2

<400> 12544

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gtaaactagc gagctaggtg gctggtcagc ggctccatta cattattact acagtacata 180
gtttcctcag tagtagacac cgccggcagc tgcgttgcaa gggcagggac ctggctgctg 240
cagctgcagg ccgcacatcg ccgtcagctg ctgcgtacc tgggcccga tcagcggcg 300
gagctgcgcc tgcggctgct gctgcaggaa ggactgcagg accacaccgt atgtcgctg 360
gtaccgggtgc agcggctcca cctgcctgat ctggtggcag cactgctgct gcagcgctg 420
gcactgtggc gagccgttgg cgtctccgt ctggtgcac tgggtgctca ggaactcggc 480
gcactggccc aggaactggc tgccgacct gccngcgccg taggatccga actgctggca 540
ccggcttagc tgcggtggtt gagtgggg 568

<210> 12545

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N7-F3

<400> 12545

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ttggggccct tttattthta aattaaaaaa agggccccc aaacaagggg gggttcccc 120
ccaagaaagg gttttttaa aaaaacccgg ttttttgga aaatthtttt ttttttgga 180
agggggcccc ccaaggggtt gcccccccc aagggttaa aaacctttg cccttttgg 240
gggccccac aaaattccac attattthtt ggggttaaagg aaacctttt ttcaagggg 300
caaaaagggt tgccccccct tgcttggtt gaggtgggca aaatthtttg aaaaaatth 360
ttttcgggg ttttggggcc ttggcccaa cgagggggct taataaaaa aaatthtttt 420
tttttt 426

<210> 12546

<211> 513

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N7-F4

<400> 12546

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aatgatgggt tgttggtaga aactgctag gtttgtcaaa gcaagttggt tgaatggcag 120
caattgttgc agttgtaaga gggtgccagc gttaggcgca gcgtgctggt agaacggcaa 180
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aagaagcaga gttcaatgca gctagttggt tgaatggaag aaactgctgt tgcctgagagt 420
aggcagcaag gtttgctagc acaagttggt gtagttgttg tgccctgatg ttttgtgcc 480
ataaatgcac caaagtaac tgctgtaata ggg 513

<210> 12547

<211> 501

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N7-F6

<400> 12547

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ctgggtttgt caaagcaagt tggacaaagg gcagcaactg ttgcagttgt aagagggttg 180
cggggttagc caaaaactgc tggtagaacg gaagcacttg ttgttggtgc aagaaggaag 240
cggggcttgt ttagctagc tggccaaatg gtagtagtat ttgctgctgg aaataagcag 300
aggggttcag tgcggccaat tggttaaatg gaagaaattg ttgctgctga gagtaggcag 360
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tagacagttg gttgaatgga agaaattggt gttgctgaga gttgggggaa aggtttgcc 480
gagcttcttg gctggtcact g 501

<210> 12548

<211> 164

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N7-F8

<400> 12548

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tggttggtggt tggtgggtgc cgggggagcg gggctccttg cggggggggtt tttttttttt 120

ttgcagccct tggggggggg gggggggccc cccgccgcg gggg 164

<210> 12549

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N7-G10

<400> 12549

cagcaaaaaa aactttatta ttgaactata actcataagc aatctaaaag agggcaccac 60

caatgatggg ttgttggtag aacactgctg ggtttgtcaa agcaagttgg tcgaatggca 120

gcaattgggg cggttgtaag agggtgccaa cgtagggcg cgtgtgcagg tagaacggca 180

acaaatgttg ctgtgtcaag aaggcagcag ggctcacagc agctagctgg ctgaatggta 240

gtagtgttg ttgttgcca taagcttgag agttcaatgc tgcccgttgg ttgaatggaa 300

gaaattgccg ggggttgga gcagcttget ggctgaatgg ttgtcgttgt tgttgctgcc 360

aattagccgc cgggttcaat gcagctcgtt ggttgaatgg cagaaactgt tgttgtctgg 420

gagtcggccg ctttttttgt ttgcc 445

<210> 12550

<211> 131

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N7-G11

<400> 12550

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ccaatgatgg gttgttggtg gaacgctgct gggtttgtca aagcaagttg gttgaatggc 120

agcaattggt g 131

<210> 12551
<211> 534
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N7-G12

<400> 12551

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gatgaacaca gcactaacia ctgacacaga gcgaccttgc aatcaaaaac acagatgggc 180
aacaacaaac gagacgaacg aagataaacc ctctggacta gggtaaacad cacggttgag 240
aacaggataa cttggccgag cgggccccac cgtccagttc ctccagttcc cgtcggagtt 300
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accgccgtag ccgtcgcctt cacggccacc accgtagccg ccgtcgtcgt cttcacggtc 480
ggcgtgggac tgggcctcgt tgacgggtgat gttgcgggag gccagctcct tgcc 534

<210> 12552
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N7-G2

<400> 12552

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aagttgggtg aatggcagca attggtgcag ttgtaagagg gtgccagcgt taggcgcaac 180
gtgctggtag aacggcaaca actgtggttg tgtcaagaag gtagcagggc tcacaccagc 240
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tagttgggtg aatggaagaa attgctgggg gtaggcagca ggtagctggc tgaatggtag 360
ttgttggttg tgcaataag aagcagagtt caatgaacct agttggttga aatggaaaga 420
aa 422

<210> 12553
 <211> 380
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-100-Q1-N7-G3

<400> 12553

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 tggtcacact gacactgcc a cccatgggtga tgcgtgacac attattactc aatcatcgcc 120
 gctaaatgac ttaactagct agcttgccgg ggggtgtggg ggcagcacat agtttcttca 180
 ggggggggaca ccgccggcag cagcgtaggg gcatggagtc ggctgctgca ggcgcacat 240
 cgccgtcagt tgctgcgcta tctgcgccgg cgacagcccc ggcacctggc cggtttgccg 300
 ctgctgctgc cgggtgggct gtggggccna gccgcgggtc ggctgggtgcc ggggctgcgg 360
 gtgcgcctgc ctgggctggt 380

<210> 12554
 <211> 300
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-100-Q1-N7-G4

<400> 12554

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 gccccggcgt tttattgtca ctattgctcg gtttcgcccc cgagggtgcg atgcgacgcc 120
 ggggacgggg cctgaaggcc cccgccgtcc gccgatgccg cctagcctag caggggaggt 180
 tgggccccgg gtcgaccccc agctggcggc agtctgcct gtagtagccg acgcgcgcgt 240
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<210> 12555
 <211> 480
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-100-Q1-N7-G5

 <400> 12555

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atgctgctgg gtttgtggag ggggggggggt tgaatggcag caattgttgc agttgtaaga 180
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actcgggaga gttcaatgct gtcagctggt tgaatggaag aaattgctgg gggtaggcag 360
cggatagctg gctgaatggt aggtgcggtt tttgccactt tgattctgtg ttcctctgct 420
ctcgcttggt ggttggggga acctgctttt gctgcttcgt tgctgcatgg gtcgcttgcc 480

<210> 12556

<211> 521

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N7-G6

<400> 12556

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tttgccagta tataagtaca acatcagcta caattcttcc cgcaacagag caccataatg 120
tgcaccatga ttcgccattg gggagcctgg tatagttggg tgtagtatta ttggccacca 180
caagcatcga ccaacaacag cggacccatt tccaacaaca gtgtacagac tagctaaatc 240
taaaaatgga aataaaaaat caaattaacg aaaagggtgtt tcctaaatgt tttcttgcct 300
ccccttgttt ctcttctaga agaaaacaga cgaacaaaat gccaccaagc cccggcgttc 360
ctggtgaagc taccaccta tcataaagag tcaattactc cttcaactca cctaatacaa 420
aattaccatc ttgttccagc actgcactga aatatatctt gtgacaactc gactagccga 480
cattgactgc actggatgag catagctttc agcaaggcat g 521

<210> 12557

<211> 507

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N7-G7

<400> 12557

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gctgcaaggc aggggttcac aaagagaact ggttgatatg cagcaattgt tgttgctgct 180
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gttgtaggta cccagcagag ttgacacag ccagttgggt gaatggaagc aactgttgta 300
agtaggcagc aggggtttgcc acagctagct gagtcagagc tgggtacaatt tgttgccagc 360
actgttggtg taggtacctc ggtgcattgt ccaccccgag ggggtctctat gaaagtagtt 420
gttggtggac ggcaggggtgc accatcggtt gttgactgat caccgcgta aacaactgca 480
gctgctggtg ttgctggtgt tcagcta 507

<210> 12558

<211> 169

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N7-G8

<400> 12558

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gaatatgagg ggtggcgcg cactgttttt ttttttagac gggcgtgacc ggcgcagaaa 120
gaaaaaacag attttttttt tttttaaaaa tttttttact gggggggggg 169

<210> 12559

<211> 186

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-100-Q1-N7-G9

<400> 12559

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gataatgtgt gtcgtcttac tgctttgtta catttataga tngagagagg tggattgtgg 120
tgttttccca tttttcgtgg ggggggggggt gggcggtttg gctgcgggga cgcctcaggg 180
gttggt 186

<210> 12560
 <211> 90
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-100-Q1-N7-H1

 <400> 12560

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 gtcacagcct ccatcgggcc acagtccatg 90

<210> 12561
 <211> 73
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-100-Q1-N7-H2

 <400> 12561

aaaaacgata tcttatactg attttctgtg ggggtttccc ttttgtctta ctgacctagt 60
 tttttttgtt tgt 73

<210> 12562
 <211> 646
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-100-Q1-N7-H3

 <400> 12562

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 gggggagggg agggggggga gggggggggg gggggggagg gggggggggg gggggggggg 180
 ggggggggag gggggggagg gggggggggg gaggggagga gagggggggg gggggggggg 240
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 ggcggagggg gggggagggg aggagggggg ggggaggaaa ggggaggggg ggggcagggg 360
 ggggggaggg gggggggggg gggggggagg gggggggggg agggggggga agagaggagg 420
 ggagagcggg gggagggggg ggggaaggga gggggggcag gggggaggag gggaggggag 480

ggaggcggga ggggaggggg ggaggggggg ggggagaggg ggggagaggg cggaggggag 540
 gggagggagg gggaaagagg ggggggcggg gggggggggg ggggggggga ggggaggggg 600
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<210> 12563

<211> 238

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N7-H4

<400> 12563

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 atgccttcta cttgggggct ccccatctgc tgggtgggtg gttgaacact ggtcggtttg 120
 tcgaagcggt ttttttgtat ggcttttttt gtgggggggg ggggggggtg cccgcgttgg 180
 gcgcgggggg ctggtggaac ggcaacaact gcggttgtgt cgtgacggtg gctgggct 238

<210> 12564

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-N7-H7

<400> 12564

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 cacattaata tctggaaatg taacttctta tttttgggtg gccacatata tcatgcgaga 120
 gactttatct ttgaattaca actaataagc aatctaaaag agggcaccac caatgatgtg 180
 ttgttggttg gaggccgctc ggtctgtcaa agcaagttgg ccaaagggca acatttggtg 240
 ttgttggttag agggttgcgg ggtttgctcg tttctgttgg ttgtagggcc gctactgttg 300
 ctgtgtcttg ttgggagctc cgtttgctgc cccttgctgg ctttctgggt gtgggtctttg 360
 ctgttgcggt ttcgctttgt gggttttgtg ccgcctcttg cgttttttgg 409

<210> 12565

<211> 492

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-102-Q1-K6-A1

<400> 12565

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taccaagata ttatccctct ttgcgcttct tgcccttttt gtgagcgcaa caaatgcgtt 120
cattattcca caatgctcac ttgctcctag tgccattatt ccacagttcc tcctccagt 180
tacttcaatg ggcttcgaac acccagctgt gcaagcctac aggctacaac aagcgcttgc 240
ggcgagcgtc ttacaacaac caattgcccc attacaacaa caatccttgg cacatctaac 300
catacaaacc atcgcaacgg caacagcaac aacaatttct accagcactg agccaactag 360
ctgggggtgaa ccctgtcgcc tacttgcaac agcaggtgct tcgatccaac ccacttgctc 420
tgggaaaata gctgcctacc cagcacaaca accattgcca ccgcgcctac cagcgctcat 480
gccgactagc cc 492

<210> 12566

<211> 652

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-102-Q1-K6-A11

<400> 12566

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attgcagatc tcccagccat gacgttcaag cggaggaacg gcggacgcaa caagcacggg 120
cgcgccacg tcaagtacat acgtgctcc aactgcgcca agtgctgtcc aaggatggtc 180
gatgggagcg gttcttgggtg aggaacattg ttgagcagge tgctgtgagg gacgtgcagg 240
aggcttgtgt gcatgatgga tatgttcttc ccaaattgta cgcaaagggt catcactgtg 300
tctcatgcgc aatccatgcg cacattgtcc gtgtccgctc tcgtgagaac aggaggaacc 360
gtgagcccc gcagcgtttc aggcgccggg atgatggccc aaggccaggt cagggcccac 420
cgcgcccagg tgctgctgcc acagcagctc cccctgctgc cgctcctcgt acctaagttc 480
aggaatgcgt ttcagggtt agttctctca cctatgggat aatggacttt tcctgttttg 540
aaaaccaatg tactgtaccc ccttgatgtc aaaattttag cacaatttgt ggttcgttct 600
tctgtcatcc agtcagtgt gtcgttgatt atatgacttc attgattttt tt 652

<210> 12567

<211> 119

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-102-Q1-K6-A12

<400> 12567

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cgaccagtgc gcgcaccgcc cggcaggggt gctcatctcg tctactacca caccattaa 119

<210> 12568

<211> 456

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-102-Q1-K6-A4

<400> 12568

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gtggtcagaa gtacagagat tgcagacaag gataacaaca ttcagaaata ctgagattga 120

ttatatattan angaaaattc ttttttctcg tnttggtnn nacttaaagg aaanctacat 180

gcatttaatc aaaacattaa tgaccaagtt gctgggtaca tgagagatcc aagtcggatg 240

attaacagga tgtacttgac caactctgct gttagtgtat ttggaaagga tgttgagaa 300

cctggaacag gtgaggaggg gcacaatatg gaagggtgac ctgaacttat tgacgattct 360

gagttttatt aacaacttct caaggagttt attgagtaat gtgataaggg ggcctaaaag 420

tgagaatttt atgctgtaaa aaacagaaag ttaaaa 456

<210> 12569

<211> 486

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-102-Q1-K6-A5

<400> 12569

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gggggteget gtttcccttt tccaggcagc tgatgcttta aacacacatc cactgcctcc 120
 nagtttaata gctaggcatc tgctctggaa aatcaacggg gttgccgggg cacacactan 180
 ctagcanatc tttcngtgaa gaccaaagag tagagagatg gaaaggatga gttcgtcgct 240
 gcatactggg tggaggagca caagctctca accatcggag cegtgtgggc gacggcggtg 300
 ggcgcgtngg tggcgtacag ccggtggngg gcgcgggcgc gggcgacggg catgcgccta 360
 atncacgcca ggatgcacgc gcaggcgctt acgcttgccg ttcttgaggg agccgtgctt 420
 gngcaccact accacggcaa gagcaccaac gccgggaaga ggcagtagca ggaggacctg 480
 gactac 486

<210> 12570
 <211> 548
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-102-Q1-K6-A6

 <400> 12570

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 gacagccgcg ggaanccaat accgcaatgt cngagccnac anggnacaag aggccancca 120
 agcaagcanc nnacgggcan nagcannaac ccnccaacaa ccanangcnc nanngcaaca 180
 gccancccca gngcancngg ancnccaaag aancgcgga caacaaccac aacaacaggn 240
 gcnaccaaca ancaancaag nagnngcagc gaaccccgcn gcnaaccncc agcaacaaca 300
 ggnncnncca nncaancaac tagcgggggn gaaccnngcn ancnactngc aggcacaaca 360
 gcnacnacca nnnaaccaac tnggcgggag ccnnaagcc nncnaaccgc aacaacagcn 420
 nengccannc catctgcaag ctgtggcaaa cattgttgct ttcttgagac aacaacattt 480
 gttgccattt taccacaag ttgtggggaa acattaatgc cttcttgcaa cagcaacaat 540
 tgctacca 548

<210> 12571
 <211> 651
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-102-Q1-K6-B1

<400> 12571

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accagttccc ctctcctgat cgtcctgttc ctcacagcag cagccatggc ggccgagccg 120
gagaagcagg cggcccccg cggcacaggag acggccgtgc acatcgtgta cgttgaccgc 180
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gaacagaagg ccagggacgc agtgctctac cactacaaga acgcccagc cggcttctcc 300
gcgaagctca cccccagca ggtcaaggat ctcaaggagc aaccaggtgt tctccaggtt 360
gtgccgagcc agacttacca gctacatggc cctgggtctg gcactacca gggcacgaca 420
cacaccttgg gccttatgtg aaggcgtatg agaatacaaga agactttgtt tagtatggct 480
gtatggcaca ggtctgacga atgtgtatag tacagtacta tgtaagaata agggacgtat 540
cgtctatata ctgctttgcg catgctcagc cctgtttctaa agcttgtaat gcaccaatgc 600
gtatgttttc aatacaatga caagtatgct atcttgtttg gtgctaaaaa c 651

<210> 12572

<211> 303

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-102-Q1-K6-B10

<400> 12572

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aaaaaaaaa aaacaaaaaa aaacgaacaa aaaacaacaa aaaaaacaaa aaaaaacaca 120
acacccccaa caaaaaccac cccaccccc ccccgcggc cncnngaana naaagggaca 180
aaaanaacna caaaaaaaaa acaacanccc cccccccaca ccccccaaaa aaaaacaaaa 240
aacaacaaca aaaaaaccca anaacaccca caaaaanaaaa aacaaaaacc cacanaaccc 300
aac 303

<210> 12573

<211> 630

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-102-Q1-K6-B11

<400> 12573

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ccagcactga gccacctagc catggtgaac cctgccgcct acttgcaaga gcagctgctt 120
gcatccaacc cacttgctct ggcgaacgta gttgcaaacc agcaacaaca acagctacgg 180
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caacaactgc tttcatctag cccgctcgtt gtgggcaatg cacctacata cctgcaacaa 300
caattgttgc aacagattgt accagctctg actcaactag ctgtggcaaa ccctgttgcc 360
tacttgcaac agctgcttcc attcaaccaa ctgactctgt cgaactctgc tgcgtacctt 420
caacagcgac aacagttact taatccattg gtagtgggta acccattggg cgccgccttc 480
ctacagcagc aacaattgct gccatacaac cagttctctt tgatgaatcc tgtcttgctg 540
aggcagcaac ccatcgttgg aggtgccatc ttttagatta catatgagat gtactcgata 600
atggtgccct cataccgacg tgtgtttcct 630

<210> 12574

<211> 352

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-102-Q1-K6-B3

<400> 12574

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gnccgngnnc aagnccaacc caccacggag ggccccgccc nggnccgttc cctcgacttc 120
ngcaagcgca tggggtcgtn gggggcgtnn tnaccgacgt natncacgac cccggacgtg 180
gaacgccgat cgccaaggtc actttnnngg caccattca ggtacaagca ccagaaggag 240
ctntttgtng aaggcgaggg catgtacacg ggccagtttg tttactgcgn gggnnngngcg 300
aacctgtgga tggggaacgt ggtggccttg cgggggatcc ctgagggtgc cg 352

<210> 12575

<211> 231

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-102-Q1-K6-B5

 <400> 12575

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 cctgctgata ctgctcaaac ggatggctat caccttttta tccaggatcc tacagaatat 120
 aagagacgtg ttaaactgca ggcgaagcag taccgccggt tgctaggttc tggaatggaa 180
 gactaaagaa caaggtcaac atgaggaaga ctactataaa gattgtgagg a 231

<210> 12576
 <211> 630
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-102-Q1-K6-B7

 <400> 12576

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 gcttaacttc acccccttga tgtatcgtct ttcttggttg cctcggttcgt tactcttggc 180
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 tagctatgtt tattgttgca ttatcaacta ttgatgctgc cctctgtac atgctggcct 600
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<210> 12577
 <211> 607
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-102-Q1-K6-C1

<400> 12577

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tcccttcttc ccccatacct tccatcaatg atagcttcag ggggggagaa acccagctct 180
tcaaccctat aggctccaac aagcaatcgc agcaagcaac atacctttat cacccttggt 240
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ctatcagcaa caacaatttc ttccattcaa ccaactatct aactgaacc ctgctgctta 420
tttgcagcaa caactattac cattcagcca gctagctact gctactctc atcaacaaca 480
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ttgctgc 607

<210> 12578

<211> 456

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-102-Q1-K6-C11

<400> 12578

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ggcgcgcgac atggtggcgt cccctaccag ctccctcttg gtggtggggg ggggggacaa 180
ntcccaccnc ttctnntcc aaaactacta aaataactaa cgccactctc cttnnnaatc 240
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actgtaataa cctcaaanac aacttcacct acttctacct cttaatacat ctctctttca 360
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aacataaagt gcactcncac ttaaaccact ccctaa 456

<210> 12579

<211> 558
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-102-Q1-K6-C12

<400> 12579

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cttgggaaggc ttgttaaggc aactggagag gtcgtggcca tgcagttgtc atctttgcgg 180
ggttgttggg atgannaant tagacaagaa ctgcagtcac cacatcctga cgatccacat 240
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cggtctcgag aaaccttcca gaggccgac cttagttctg aacctcaaat tactgaacat 420
cgaatacagc caaatgatca atttgttata ttgcttctg atgggtctatg ggagcacctc 480
agcaataagg aagcagttga ccttgttcaa agtagtccac acaatggaat tgctctgaga 540
ctattgaaag cggcgatg 558

<210> 12580
<211> 636
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-102-Q1-K6-C2

<400> 12580

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acaacaacgg ttgcttccaa caattaatca agtagttgca gcgaaccttg ctgcttagct 180
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acaacaacia ttgctgcat tttaccaca ggttggtggg aacattaacg ctttcttgca 420
acaacaacia ttgctgcat tttaccaca ggatgtggca aacattgtcg ctttcttaca 480

acaacagcaa ttgctgccat ttagccaact cgctttgacg aatcctacca ccttattgca 540
tcagcccacc attggtggta ccatcttcta gattttttat gctttatact gtaataataa 600
atttctcata ctgatatgtg caacttctca gtaata 636

<210> 12581
<211> 634
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-102-Q1-K6-C3
<400> 12581

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ccaagatatt atccctcttt gcgcttcttg ccctttttgt gagcgcaaca aatgcgttca 120
ttattccaca atgctcactt gtccttagtg ccattattcc acagttcttc cttgggtgac 180
gggaatgggc ttccaacacc cagctgtgca agcctacagg ctacaacaag cgcttgcggc 240
gagcgtctta caacaaccaa ttgcccaatt acaacaacaa tccttggcac atctaaccat 300
acaaaccatc gcaacgcaac agcaacaaca atttctacca gcactgagcc aactagctgt 360
ggtgaaccct gtcgctact tgcaacagca gttgcttgca tccaaccac ttgctctggc 420
aaacatagtt gcataccaac aacaacaaca attgcaacag tttctaccag cgctcagtca 480
actagccatg gtgaaccctg ccgcctacct acaacagcaa caactgattt catctagccc 540
tctcgtgtg gttaatgcac ctacatacct gcaacaacag ttgctgcaac agattgtacc 600
agctctgact cagctagctg tggcaaacc tgc 634

<210> 12582
<211> 368
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-102-Q1-K6-C4
<400> 12582

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atcattggtg gtgcctctt ttagattgct tatgatttat accccaataa tggaatttgt 120

ccnaggatnt ttgtnncntn ccanaaataa aaaagtagat tactagattc taaaaaaaaat 180
 aaaataaata aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
 aaaaaagaaa tattatttta aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaannnnnnn 360
 nnnnnntt 368

<210> 12583

<211> 609

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-102-Q1-K6-C5

<400> 12583

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 ccctccttgc gcttcttgcc ctttttagtga ggcgaacaaa tgcgttcatt attccacagt 120
 gctcacttgc tcttagtgcc agtattccac aattctcttg gggtcagtng ggggaatnnn 180
 cttcnaacat ccancctgac aagcctacag gctacaacta gcgcttgagg cgagcgcctt 240
 acaacaacca attgccaat tgcaacaaca atccttggca catctaacc tacaaaccat 300
 tgcaacgcaa caacaacaac aacagtttct gccatcactg agccacctag ccgtggtgaa 360
 ccctgtcacc tacttgcaac agcagctgct tgcattcaac ccacttgctc tggcgaacgt 420
 agctgcatac cagcaacaac aacagctgca acagtttatg ccagtgtca gtcaactagc 480
 cattgtgaac cctgccgtnt acctacaact actttcatgt agcccgtcg cggtgggcaa 540
 tgcacctacg tacctacaac aacatgtgct gcaacaaatt gtaccagttt tgacttaact 600
 agctgtggc 609

<210> 12584

<211> 650

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-102-Q1-K6-C9

<400> 12584

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 catacctctc accagcgggtg tcttcaatgt gtgaaacccc aattgttcaa ccctacagga 120
 tccaacaggc aatcgcaaca ggcattcttac cattatcacc cttgttcttc caacaaccgn 180
 canccctttg gttcgggttg gcgttggtcc atttggtggc aaaaaacatc agggcacaac 240
 aactacaaca acttgtgcta gcaaaccctg ctgcatactc tcagcaacat cagtttcttc 300
 cattcaacca actggctgca ttgaactctg ctgcttattt gcaacaacaa ttaccattca 360
 gccagctagt tgctgcctac cccagcaat ttcttccatt caaccaacta gcagcattga 420
 actctgctgc ttatttacag cagcaacaac tactaccatt cagccagcta gctgatgtga 480
 gccctgctgc cttcttgaca caacaacagt tgttgccgtt ctacctgcac gctatgccta 540
 acgctggcac cctgttataa ctgcaacaat tgctgccatt caaccaactt gctttgacca 600
 acccaacagt gttctacaa caaccctca ttgggggtgc cctcttttta 650

<210> 12585

<211> 674

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-102-Q1-K6-D1

<400> 12585

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 atagtgtacc aacaatggca gccaaaattt ttgttctctt atgtctcttg gtctttctgc 120
 aagtgttgct accgagacca ttttcccaca atgtcacaa gctcctatag ctcccttct 180
 tccccatac ctctcaccag cggggggggg ggggggtgaaa cccaattgt tcaaccctac 240
 aggatccaac aggcaatcgc aacaggcatc ttaccattat cacccttggt cctccaacaa 300
 ccgtcagccc tattacagca gttacctttg gtccatttgg tggcacaaaa catcagggca 360
 caacaactac aacaacttgt gctagcaaac cttgctgcat actctcagca acatcagttt 420
 cttccattca accaactggc tgcattgaac tctgctgctt atttgcaaca acaattacca 480
 ttcagccagc tagttgctgc ctacccccag caatttcttc cattcaacca actagcagca 540
 ttgaactctg ctgcttattt acagcagcaa caactactac cattcagcca gctagctgat 600
 gtgagccctg ctgccttctt gacacaacaa cagttgttgc cgttctacct gcacgctatg 660

cctaacgctg gcac

674

<210> 12586

<211> 121

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-102-Q1-K6-D10

<400> 12586

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ttcaatgggt cccagtgatg gttatgtcgc agtcagggtc actgtccaac aaacctttgc 120

t 121

<210> 12587

<211> 546

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-102-Q1-K6-D11

<400> 12587

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tcccacatct caaactccta tactcccttt tccccctcct ctcacacggg gtcttttgggg 120

tgtgagggcg cattcttcaa ccctacanga tccaacaggg aatcgagct ggcattcttac 180

ctttatcacc cttgttcctc caacaatcat cagccctatt acagcagtta cctttgggtgc 240

atttattggc acaaaacatc agggcacaac aactacaaca acttgctgta gcaaacttg 300

ctgcctactc tcagcaacag cagtttcttc cattcaacca actagctgca ttgaactctg 360

cttcttattt gcaacaacaa caactacat tcagccagct atctgctgcc taccctcagc 420

aatttcttcc attcaaccaa ctgacagcat tgaactctcc tgcttattta cagcatcaac 480

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ttgttg 546

<210> 12588

<211> 612

<212> DNA

<213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-102-Q1-K6-D2
 <400> 12588

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 gtgttgctaa cgcgaccatt tttcctcaat actcacaagc tcctatagct gcccttcttc 120
 ccccatacct tccattaggg acgtngggga gggtgtgaaa acccagccct tcaaccctac 180
 aggctccaac aagcaatcgc aacaagcaac ttacctttat caccctgtt ctttcaacaa 240
 tcgccagccc tatctttggg gcagtcattg gtacaaacca tcagggcaca acagctgcaa 300
 caactcgtgc taccagtgat cagccaagta gctctggcaa acctttctcc ctactctcag 360
 caacaacaat ttcttccatt caaccaactg tctacaactga accctgctgg ttatttacia 420
 caacaacaac tactaccatt cagccagcta gctactgctt actctcagca gcaacaattt 480
 cttccattta accaattggc cgcactgaac cctctgctt atttccagca gcaaatacta 540
 ctaccatttg gccagctagc tacaacaagc cccacttctt tttttgaaac aacaacaatt 600
 gcttccgttc ta 612

<210> 12589
 <211> 634
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-102-Q1-K6-D4
 <400> 12589

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 tgctccttgg tctttctgca agtggtgcta ccgagaccat tttccacaaa tgctcacaag 120
 ctctatagc ttcccttctt ccccatacc tctcaccagc tttgggggta gttnngagaa 180
 acccaattgt tcaaccctac aggatccaac aggcaatcgc aacaggcatc ttaccattat 240
 cacccttggt cctccaacaa ccgtcagccc tattacagca gttacctttg gtccatttgg 300
 tggcacaaaa catcagggca caacaactac aacaacttgt gctagcaaac cttgctgcat 360
 actctcagca acatcagttt cttccattca accaactggc tgcattgaac tctgctgctt 420

atttgaaca acaattacca ttcagccagc tagttgctgc ctacccccag caatttcttc 480
cattcaacca actagcagca ttgaactctg ctgcttattt acagcagcaa caactactac 540
cattcagcca gctagctgat gtgagccctg ctgccttntt gacacaacaa cagttgttgc 600
cgttctacct gcacgctatg cctaacgctg gcac 634

<210> 12590

<211> 578

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-102-Q1-K6-D7

<400> 12590

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gaactctgct tcttatttgc aacaacaaca actaccattc agccaggtgg gttgtngggg 180
ggcccnacac atttcttcca ttcaaccaac tggcagcatt gaactctcct gcttatttac 240
agcagcaaca actactacca ttcagccagc tagctggtgt gagecctgct accttcttga 300
tacaaccaca gttgttgccg ttctaccagc acgctgcgcc taacgctggc accctcttac 360
aactgcaaca attgctgcc ttcaaccaac ttgctttgac aaaccagca gcgttctacc 420
aacaacccat cattggtggt gccctctttt agatttctta tgagttatag ttcaataata 480
aagttttttg tctgatgttt gtggcttccc agaaataaga aagtacattt ctagaaaaaa 540
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aggcggcc 578

<210> 12591

<211> 208

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-102-Q1-K6-D8

<400> 12591

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaataaaaaa aaaaaaaatt aaaaaaaaaa 120

aaaaaattat ttaaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaattaaaa 180
 aaaaaaaaaa aaaaaaaaaa tattaatt 208

<210> 12592
 <211> 314
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-102-Q1-K6-D9

<400> 12592

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 cancagggca caacagcngc agcaacgcgg gcgaccgcgg ancaaccaag gagcgcgggc 180
 aaaccgnncn ccnacgcgc agcaacaaca anggnncgcc aggcaaccaa cgggcnacac 240
 ggaacccggc ngcgannng cagcaacaac gangaccang nagccagcga gcgaccgcn 300
 accncagca acaa 314

<210> 12593
 <211> 516
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-102-Q1-K6-E1

<400> 12593

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 tattgtcgt catcattggg ccaggtgtgg tcgncattat tacacacgct atgactatga 180
 gaatgtcgat gctggggctg ctaaggagct gatggcaaac ctagtaagca tgcagtcac 240
 actttctgat gttaacaagt tgatcaagga gatccggtct gatgtttntg aagtagttgc 300
 agctgacgag tttagagtaca aggatccagt tgatggcttt gtgtncagc accagggcat 360
 tcgatacctn ttnggagatg gttaacgact ggtgttncgt ttattctgaa ccggttgtgt 420
 tgggtgccacc atgcgtgtnt acatggagca atacgagaag gatttctnca agaccggtag 480

ggattgacag gaggcccttg ctacactggg tgatgt

516

<210> 12594

<211> 662

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-102-Q1-K6-E10

<400> 12594

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tgctccttgg tctttctgca agtgctgcta cggcgaccat tttcccgcaa tgctcgcaag 120
ctcctatagc ttcccttctt ccccgctacc tctcaccagc ggtgtcttcg gtatgtgaaa 180
accgggtcgt caggcctaca ggatccaaca ggcaatcaca gctggcatct tacctttatc 240
acccttggtc ctccaacaat catcagccct attacatcag ttacctttgg tgcatttatt 300
ggcacaaaac atcagggcac aacaactaca acaacttggt ctagcaaacc ttgctgctta 360
ctctcagcaa cagcagtttc ttccattcaa ccaactagct gcattgaact ctgcttctta 420
tttgcaacaa caacaactac cattcagcca gctacctgct gctaccccc agcaatttct 480
tccattcaac caactggcag cattgaactc tctgcttat ttacagcagc aacaactact 540
accattcagc cagctagctg gtgtgagccc tgctaccttc ttgatacaac cacagttggt 600
gccgttctac cagcacgctg cgcctaacgc tggcaccctc ttacactgca acaattgctg 660
cc 662

<210> 12595

<211> 657

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-102-Q1-K6-E2

<400> 12595

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cttccctgtt cagtacgatg ctgcaaagtt ctttgtcatt aaatcgtaca gcgaggatga 180
catccacaag agcgtaaagt gcgggggggg ggcaagcaca accaacggaa acaagaagct 240

tgatgctgct taccaagaag ctcaagtcaaa gggatctgca tgccctatat tcttgttctt 300
 ctcaagtgaat acaagtgggc agtttgttgg tgttgctgaa atgactggcg ccgttgattt 360
 tgagaaaacc ctagagtatt ggcaacagga caagtggaac ggctccttct ctgttaagtg 420
 gcacattgtc aaggacgtgc ccaacaatat tctcaagcac atcatcctgg agaacaatga 480
 gaacaagcct gtcacaaaca gccgtgacac tcaggagata cgctcgaac aaggccttca 540
 gatgctcaag atattcaagg atcatgtcag caaaacttcc atcctcgacg actttgcctt 600
 ctatgagagc cgccagaagt tgatgcagga taagagggtcc aaacagcagc agtcca 657

<210> 12596

<211> 457

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-102-Q1-K6-E3

<400> 12596

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 ctacanatcc aacaaaaaaaa aaaaatgcan ttacottaca cccttgttct ccacaataaa 180
 agncttatac agcagttacc tttggtgcat tattgggaca aaacaaaggg nacaacaact 240
 acaacaactt gtgctagcaa accttgctgt ctactntaag naacagcagg ttataacatt 300
 gaaccaacta agtagattga actgtggttg ttatttgcaa caacaacaac taccattaaa 360
 gcaggtaact agtagaatac caggaacaat aagttacatt gaaccaactg aggaaaatag 420
 aaatatactg gttaatgaca ggaggaacaa ctactac 457

<210> 12597

<211> 477

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-102-Q1-K6-E4

<400> 12597

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ggggttccaag ctgccttctg cacaacctct tccccacctg tgggtttgtc tggggaaaaac 120
 aaattctttt ctgaggaaaa aaaaaaacag cctctnaaga agaactattc cataagtgtg 180
 ttgctgagca gactaacttc atcagtgatg ggagatctcc ttatgaagag ccttcggtca 240
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 cttggaatcc cacagttaag gctttgcgcg accgcctgga tgcctggggt ggaaaggtgc 360
 atactacatt gctttcagtt gaggcagaaa cacctgatct tgttgctgcc taatttagca 420
 cccgttacac ttccgcgaga ggcttgggtca gccaaagtgat gagatgcatt gggacac 477

<210> 12598

<211> 137

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-102-Q1-K6-E5

<400> 12598

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 aaaaagaggg gaagaag 137

<210> 12599

<211> 498

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-102-Q1-K6-E6

<400> 12599

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 acctgccacc ttcggtgggg gggggggggg cnntccacct nccnccccn ntccacctac 180
 caccaaaca ccatgtncn cncnnttc atctnccnc cccaccatnc cactacccta 240
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 atccaagccc gtgccagctg cagggaacct gcggcgttgg cagcaccgcc atcctgggcc 360

agtgcgtcga gttcctgagg catcagtgcg gcccgacggc gacgccctac tgctcgccctc 420
 agtgccagtc gttgcccag cagtgttgcc agcagctcag gcaggtggag ccgcaacacc 480
 ggtaccaggc gatcttcg 498

<210> 12600
 <211> 547
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-102-Q1-K6-E8

<400> 12600

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 gtgtagggga gaaaccanc tcttcaacc tatangctcc aacaagcaat cacagcaagc 180
 aacatacctt tatcaccctt gtttcaacaa tcgccagccc tatctttggt gcagtcattg 240
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 tctacactga accctgctgc ttatttgcag caacaactat taccattcag ccagctagct 420
 actgcctact ctcatcaaca acaacttctt ccatttaacc aattggccgc actgaacctc 480
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 gcttcct 547

<210> 12601
 <211> 556
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-102-Q1-K6-E9

<400> 12601

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 tgccagccac cgccgccggt tcctctaccg ccncntgca tgtggcagtc ggggtcacct 180

nccacctccn ntncatctcc caccgccgga ccacctgccg ccgccggtcc acctgccacc 240
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accgccccgg cctcagcctc atccccagcc acacccatgc ccgtgccaac agccgcatcc 360
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cgtcgagttt ctgaggcatc agtgcagccc gacggcgacg ccctactgct cgcctcagt 480
ccagtcgttg cggcagcagt gttgccagca gctcaggcag gtggagccgc agcaccggt 540
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<210> 12602

<211> 473

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-102-Q1-K6-F1

<400> 12602

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ttgggggcaag nggagtaaga cngggggggg gatgnagnat tttggggant gaggacgagt 120
actgnnagtg gagtgttgaa tagggatatg tgaccggaac cttttgttgt gggcggggag 180
tgagcagttg ncttcttttt tttttttggg gnnngggggg naaataagng atagnngtg 240
nggtggtagt aagagcaagt tgtgtgttat tgggaagatg ttgttgaaga gtaaggtgtg 300
ttgtaagttt tggggttgga cttgtgtgta ggtgatcaat tggaatttgt ggtatggtat 360
ggaggaggtg tggaagtgat ttgggaattg ggaggagatt gtgggtgggt attaggagg 420
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<210> 12603

<211> 636

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-102-Q1-K6-F10

<400> 12603

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 caagctecta tagcttcctt tcttcccccg tacctctcac cagctttgtg tggttggatn 180
 ggagaaaccc aattcttcaa ccctacagga tccaacaggc aatcacagct ggcattctac 240
 ctttatcacc cttgttcctc caacaatcat cagecctatt acatcagtta cctttgggtgc 300
 atttattggc aaaaaacatc agggcacaac aactacaaca acttgtgcta gcaaactttg 360
 ctgectactc tcagcaacag cagtttcttc cattcaacca actagctgca ttgaactctg 420
 cttgttattt gcaacaacaa caactaccat tcagccagct acctgctgcc tacccccagc 480
 aatttctttc cattcaacca actggcagca ttgaactttg ctgcttattt acagtagcaa 540
 caactactac cattcagcca gctagctggg gtgagccctg ctaccttggt gatacaacca 600
 cgagggggtg ccgtagtacc agcacgctgg gcctaa 636

<210> 12604
 <211> 547
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-102-Q1-K6-F11

 <400> 12604

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 ggggggggaan ctttcctcat ctcaaatat tactccaaan atacattaat ttaaaattct 180
 tatttttnat cactttaata ctaattccaa ttttaangac tcaatnatta ttatatattc 240
 ccattaccna naaantntca attaaatata ttntcacta cannatattn attataaact 300
 tntcatacct tttaaattca ttntcaaat ctcaacatat aaccaactaa atgtgcaa 360
 tcaaaaaact taacaaacta ttttcaataa atttctatct aaattatata ataattta 420
 taccaacatt aaatttacta agaatgactt aatattaatt aatataatat tccttatttt 480
 atttaatacc aatttttcac cattaataatg ttatcaacca ttttttaaac ttgaacaaat 540
 aattaat 547

<210> 12605
 <211> 598

<212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-102-Q1-K6-F3

<400> 12605

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ttgctgaatg gtaactctat ggattcagct gatcccanac ccggggctga tngagggaaa 180
gcaaattgat aataaaagcc aagttgatag tgaaactgtg aaagcatgat atactctgat 240
ggaggggggtt ttgtttgcta aaagctgttc agacagctaa ggccccgttc gtttggttacg 300
gattgatgga tcggaacgat tcttaatcgg attgctttag tttatataaa cctcatctgg 360
aacgattccg gggattgctt ctctagttaa tataaatctc aacgggaacg attctggatg 420
taattctaca caaacgaaca aggcccaaag aagaaatatg ggatgccacg cgctttgggtg 480
cctagctcct tgatgacttg atgacatagc tacgaaggaa atagctttac atctcgctgt 540
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<210> 12606
 <211> 550
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-102-Q1-K6-F5

<400> 12606

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cacctaaagt gcccggtgtg gcgcgccgnc gtggacgccg gtgccgtcgt cgtcgncgac 120
ggcgccatga agcgggagag gcttttgtct tgctggggct tgccctgggc tgggactgcn 180
caaaactcct tggttttgtn ttggcacacc aantactcta ccccatggn gttgccacgc 240
taggcagtgg ctagtggggg tggatcatgt gagtggtgac cgggctgctt gtgcatgtgg 300
agcggagcgg aggaggacag tgagacgcgc acgacgaacc cgtgagtgcc ttgggagttt 360
ttgcacgctt tgtgcgcgca aaggtacggt tgggtcacat ttgttggttg gaccgtttgg 420
accccttttg gcgtgtgctg gtagaatgat ggagagcaag tgatgaaggg ttttggttaa 480
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aggatatggg agcgctttgt ttatggactg tgggtgtagg ggatagaggg acaatgtgtg 540
attgatgtgg 550

<210> 12607
<211> 552
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-102-Q1-K6-F6

<400> 12607

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gcgagcgcaa caaatgcgtc cattattcca caatgctcac ttgctcctag ttccattatt 120
ccacagttec tttgggggtg gggggaatnn ccttcnaaca cccanctgtg caagcctata 180
agctacaaca agcgattgcg gcgagcgtct tacaacaacc aattgcccaa ttgcaacaac 240
aatccttggc acatctaaca atacaaacca tcgcaacgca acagcaacaa cagttcctac 300
cagcactgag ccacctagcc atggtgaacc ctgtcgcta cttgcaacag cagctgcttg 360
catccaaccc acttgctcta gaaaacgtag ttgcaaacca gcaacaacaa caactgcaac 420
agttttctgcc agcgcttagt caactagcca tgggtgaaccc tgccgntac ctacaacagc 480
aacaactgct ttcatttagc ccgctcgctg tggccaatgc acctacatac ctgcaacaag 540
aattgttgca ac 552

<210> 12608
<211> 643
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-102-Q1-K6-G10

<400> 12608

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aaaagatgct ggaaaatcta gacacatggg agagattgaa ggatataaat acacagtacc 120
agngagaaaac tattaacact tagagctcgg caagcgaact atagagatga gttcctgcgc 180
aggaatttgg ttcgctccga gggcaatacc agcacgccag catgagccat tatgccagca 240

attccacggc tggggagcag catggttata acccaacggc agcaggcacg cctcctgttg 300
ctgctggagg tgcttatggt gaggtcatc ggggttatgc ttctggccag tatgaatcat 360
ttagcgatcg tccagattat ccagagttcc atgatggggg cagaggtcgt ggtcgtagtt 420
ctgagcagcg tgctcaatac cctggtggtc gtgcttataa ttccggtggc cggcgattct 480
agatatgctt tgaactttga aagacgatct atcactctgt caagcgagct catatcacct 540
gatgtcagtg tgctgcaccg tgctatactc gaccgagaaa cctaagcgct cataaaaaact 600
tgtctacaat tcaggtgcat cgaactactt tatgggtttg cta 643

<210> 12609

<211> 291

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-102-Q1-K6-G11

<400> 12609

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gaaaaccgag aagganaaan ggcannagaa aaacangggg gggggggggg gcggcacna 120
aaggaaagcn acagngcann nnaancagaa acaaaagaga ccaagnngcn ggnaacanga 180
gagaaccaag gncggagaaa aacaggaggg acccgaccaa cncngcngng agngnannng 240
gaaaggaggn nggagaaccc ggaacagcgg aggaggggca caananggaa g 291

<210> 12610

<211> 494

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-102-Q1-K6-G12

<400> 12610

gcaaaaaaaaa attttgggtg cttatgctcc ttggtctttc tgcaagtgtc gctactgcga 60
ccattttccc tcaatgctcg caagtccta tagcttcctt tcttccccct ttcctttcac 120
caacccccctc ttttgtgttg tagggggaan ncttcaaccc tacannatcc aacaaacaaa 180
aacaataaac atcttacctt tatcaccctt gttcctccaa caatcatcac ccctattaca 240

tcaattacct ttagtgcatt tattggcaca aaacatgatg gtacaacaac tacaacaact 300
 tgtgctagca aaccttactg cctacttttt ataacaacat tttcttctca ttaaccaact 360
 agctgcatta aactcttttt tttatttgca acaacaacaa ctaccattca tccatctacc 420
 tatttcttac ccccatcaat tcctttcatt caatcaacta ttcaacttat aacttttctg 480
 cttatttact tcat 494

<210> 12611

<211> 107

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-102-Q1-K6-G2

<400> 12611

acccatcatt ggtgttgttg ttgttttgag attcttataa attatagttc aataataaag 60

ttttttgtct gatgtttgtg gcttcccaga ataagaaaga catttct 107

<210> 12612

<211> 581

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-102-Q1-K6-G3

<400> 12612

ccccctctt ttgtgggnng gcttctcctt ttttgggggg ggggtgcgga aaaaaaaaaat 60

tctgcgggggt tcggtttcnt gggtgagcgg atcgagatgg cggcgtcgga tgttgagtac 120

cgctgcttcg tcggcggcct cgctggggcc acggacgacc actccctcca caactccttg 180

tgttttgcn nggggtcctn nantccaana tcctcctcna tcggaaaaca caaaggtccc 240

nnncttcnn cttctcacc ttctccacng aggaggggat gcggaacgcc atcgagggca 300

tgaacggnaa ggagctggac ggccgnaaca tcaccgtcaa cgaggcccag tcccgcggng 360

gccgtggagg cgtttgcggt ggcgggtacg gtggtggccg tggaggcggn gggtacggcg 420

gtggcgggcg ccgtgatggc gngngnggtt actgcggggg cgngnggtac ggtggtggcg 480

gcggcgggcta ctgtggtggt ggcgggggtt acgngnggtg caaccgtggc ggggggttacg 540

ggaactccgn acgggaacct ggagaactga gcggtggggc c

581

<210> 12613

<211> 314

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-102-Q1-K6-G4

<400> 12613

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaaaaaaa aaaaaaaaaat 60

aaaaaaaaaa aaaaaaaaaa taaaataaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaáaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaaaaaaaa aaannaaaaa aaaaaaaaaa taaaaanaaa aaaaaaaaaa aaaaaaaaaa 240

annaaaaaaa aaanaaaaaa anaaaaaaa aaaaaaaaaa anaaaaaaa aaaaaaaaaa 300

aaaaaaaaaa aaaa 314

<210> 12614

<211> 549

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-102-Q1-K6-G8

<400> 12614

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gacgtgcagc tccctcaagt acatctttag caaaaanata atttggtgtt gaggtggaat 180

atnaatatan ttctcccaan naagtnaaag tcaccaacac cctggacatc aagatgaacc 240

gcgtccagaa tccgggacag gctgccatga atccaaatgt gagccgggag ctggcccgtc 300

gcgcacaggt ggagcacctg agaaagtgat ggatctggcc aacaagaaaa accttgtttc 360

ggccaaagat gaggtggaga gagccaggaa cgccttgaac tctatcacc acgacacaga 420

tgacgccgtc gattccctct tcaacgagct ggacaatatc gaagaatttc tggagacgta 480

cgacatctac aacaagctcg gccgtccta cctgctggcc tgcattctct cgcattgaacg 540

ccagcgcta

549

<210> 12615

<211> 606

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-102-Q1-K6-G9

<400> 12615

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cccttcggag aggtgtccag gtcctccgc ggcatccggg actaccgct ggcggtcctg 120

gaggcgaacc cgcgctcgtt cgtggtgccc agccacaccg acgcgcactg catctgttac 180

ttgggggggat tgtanggagt gntnacnacn atcgagaacg gcgagaggcg gtcatacacc 240

atcaagcaag gccacgtctt cgtggcgccg gccggggcgg tcacctacct ggccaacacc 300

gacggccgga agaaactggt catcgccaag atcctccata ccatctccgt gcctggcgag 360

ttccagttct tcttcggccc cggcgggagg aacccggaat cgttcctgtc gagcttcagc 420

aagagcatcc agagagctgc atacaagacc tcgagcgacc gtctggagag gctgttcggg 480

aggcatgggc aggacaagg gatcatcgtg cgcgccacgg aggagcagac ccgcgagctg 540

cggcgccacg cctcggaggg cggccacggc ccgcactggc cctgcccgc gttcggcgag 600

tcgcgc 606

<210> 12616

<211> 527

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-102-Q1-K6-H10

<400> 12616

gtcgaccag cgtccgtcct gggggaaaca cccaaaatct tcacggtatc tggcttgaac 60

gttaggagct accgctatta tgatcctgca acatgcagcc ttcacttcga aggactcctg 120

gaagacctcg gttctgtccc ttcaggttca attgtactgc tgcattgctg tgctcacaac 180

cctactggag tgggggcggc atcgaacagt gggaacagat taggcagctg atgagatcaa 240

aatcactgct tccgttcttt gacagagcct atcaaggctt tgcaagtgga agtcttgaca 300

aagatgctca gtcagtgcgt atgtttgtag ctgatgggtgg tgaacttctc atgggtcaga 360
gctactctaa gaacatggga ttgtatggag agcgtgttgg cgctataagc cttgtctgta 420
aaagtgccca tgtacctggt agggtcgcaa agtcaacttc aaacttgaga taaggcctat 480
gtattcaaac cctcctattc atggagccta tatggttggt accatac 527

<210> 12617

<211> 216

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-102-Q1-K6-H12

<400> 12617

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gcggtttgtg atgccaaatt gtatcctcgt cgtgtgttga agcggttcgat cgtcgggtcta 120
gtagtgtgcc tgtgagcagc ggcgtgctgt tgtacgtacg tctgcctctg ttctatgtgg 180
ggggagtttc catancaaatt gcatgcgtcg agatct 216

<210> 12618

<211> 585

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-102-Q1-K6-H2

<400> 12618

gctacaaaaa attagccctc cttgcgcttc ttgccctttt agtgagcgca acaaatgcgt 60
tcattattcc acagtgtca cttgctccta gtgccagtat tccacagttc ctcccaccag 120
ttacttcaat gggcttgggg cgggcagccg tgcaagccta caggctacaa ctagcgcttg 180
cggcgagcgc cttacaacaa ccaattgccc aattgcaaca acaatccttg gcacatctaa 240
ccctacaaac cattgcaacg caacaacaac aacaacagtt tctgccatca ctgagccacc 300
tagcgtggt gaaccctgtc acctacttgc aacagcagct gcttgcatcc aaccacttg 360
ctctggcgaa cgtagctgca taccagcaac aacaacagct gcaacagttt atgccagtgc 420
tcagtcaact agccatggtg aaccctgccg tctacctaca actactttca tctagcccgc 480

tcgcggtggg caatgcacct acgtacctac aacaacagtt gctgcaacaa attgtaccag 540
 ctctgactca gctagctgtg gcaaaccctg ctgcctactt acaac 585

<210> 12619

<211> 350

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-102-Q1-K6-H3

<400> 12619

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 cgtaccggtg cgcgtgccgg gtgttgatt ttgtgtttga gtgtgttgta aactgggcag 120
 gtacatgccca cccaccctt atgtgttcgt ttanggggnt nactnntntc atnntantna 180
 cngataaact aaaaaaaaaa aaaaactcgt gttcggtaat taagtgtgc ttagtgtgat 240
 naaaaaaaaa aaaaaaaaaa aaaaaaaaaa aagaaaaaaaa aaaaaaaaaa aaaataaaaa 300
 aaaaaaaaaa aaaggggggg gaaaaaaaaa aaaaaaatTT tttttttttt 350

<210> 12620

<211> 547

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-102-Q1-K6-H4

<400> 12620

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 gctttcattg ctttagtatt aagtgtttct tgtacacaga cagtcnctnc ancttttttg 120
 ggaatgaang ggggancanc aacatnatcc acaacaacat natccacaaa aacaacaaca 180
 tcaaccacca ccacaacatc accagcagna ncaacaccaa caacaacaag ttcacatgca 240
 accacaaaaa catnagcaac aacaagaagt tcatgttcaa caacaacaac aacaaccgga 300
 ggancaccac caacaacaac aacaacagga ccaacaacaa catcaatgtg aaggccaaca 360
 acaacatcac caacaatcac aaggccatgt gcaacaacac gaacagagcc atgaacaaca 420
 ccaaggacag agccatgagc aacaacatca acaacaattn cagggtcatg acaagcagga 480

acaaccacaa cagcctnagt aatataagca ggggccagga aaaaaaacia cagcaaccat 540
gtgattg 547

<210> 12621

<211> 503

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-102-Q1-K6-H5

<400> 12621

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tgacaatgct ggtgggtattg ttgagatgag ccagcaccat tgaaagtgtg tagagaaatc 120
acagatgttc tagatgctgt gggcaacaca actaaagcta ctacaaaatt ttttgtgggtg 180
ggggcagcac cactnccatc atccctcctg gnnagtgcac acataaacia actaccttct 240
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ttattaggct caatgcttat attcctgttt acagcctagc ctgggttcaac cattagcaaa 360
actgcacatt aagctcctaa tcatgtcact agacaattta ttctataccc tcctcttatg 420
gactacaaaag agaaacccta tttccgaccc tctctccaca attgttctct tttcacatcc 480
ttaacaaaaa tcataaaaac ctc 503

<210> 12622

<211> 359

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-102-Q1-K6-H7

<400> 12622

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nnetgggtgtg ctcttgggtc tttctgnaag tgctgttaag gngaccattt tnccgcaatg 120
ctcgcaagct cctatagctt nccttgttnc ccntacctc tttcctcccc cccctctttt 180
tttttttgtc cnggggnnnn aaccctacan natccaacan ncaaacacia aaaacatata 240
acctttatca cccttnttac tncaacaatc attancccta ttacatcant taccttnnnt 300

ncattttattn ncacaaaact tannnaacaa cttctacaac aacttntnct agcaaacct 359

<210> 12623

<211> 330

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-102-Q1-K6-H9

<400> 12623

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tcctataact tcccttnttn cccctacct ttcaccaccc ctctcttttt tggggggggg 120

cgcaaacctnc aaccctacan natccaacaa acaatacaca ataaaatatt acctttatca 180

cccttnttcc tncaacaatn atnanaccta ttacaacaat tacctttaaa tgcatttatt 240

tgncacaaaa cattanggt cataaactac aacaacttgt gctagcaaac cttgctgnct 300

atTTTTTTca cagaaatttc ttccattaaa 330

<210> 12624

<211> 252

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-114-Q6-N7-A1

<400> 12624

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tgggaactta caaacaaggg aagtggattt ggcagatatg tatgtaattg atcattttaa 120

tataagagca taagtggggg ggggtttgaa ctaggaatat gtgattgaag agcggtcact 180

aattatgcga ccaaacttgg ggggtgttgg gtgagactga aggttttgaa taaggagagg 240

tggggacagg ag 252

<210> 12625

<211> 611

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-114-Q6-N7-A10

<400> 12625

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 aatggcataa atgattatgt attgtagtgt acatatataa gaaagactag ttagatgccc 120
 gtgctttgca atggcatata aaatattcga caaaatatca cttcaataac tcaatgacct 180
 tgcacaaagt agaaccagac taattgctcc acaaccaatg catgccataa ttcaatgtgc 240
 agcactcact cctgcttgca ctcaacaggt cgttcgctgc tgcccttccc cctccagtag 300
 ccccttgggt ctttgtatca taatcatcat catcctcgtc atctttgtct tcctcatcgt 360
 cctcaccata cataacttca aattcctcat cttgagtagc ctctctagct agtaaaccat 420
 gataacaacat gtggggtaat cttgtcgctg cgtgcttctg ttagccatgc tgagatgaca 480
 gtaagagaga cgatggactt ctctttcaag atgcttggaa ccaataatga atttggtgaag 540
 tcatactctt gactatagtg tgctattcat ttagaaagac attggagtgt gctgcaattt 600
 ataacaaggc a 611

<210> 12626

<211> 603

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-114-Q6-N7-A11

<400> 12626

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 cattattgaa ctataactca taagcaatct aaaagagggc accaccaatg atgggttgtt 120
 ggtagaacac tgttgggttt gtcaaagcaa gttggttgaa tggcagcaat tgttgcagtt 180
 gtaagagggg gccagcgtaa ggcatagcgt gcaggtagaa cggcaacaac tgttgttgct 240
 tcaagaaggc agcagggctc acatcagcta gctggctgaa tggtagtagt tgttgctgct 300
 gtaaataagc agcagagtcc aatgctgcta gttggttgaa tggaagaaat tgctgggggt 360
 aggcagcaac tagctggctg aatggtaatt gttgttgcaa ataagcagca gagttcaatg 420
 cagccagttg gttgaatgga agaaactgat gttgctgaga gtatgcagca aggtttgcta 480
 gcacaagttg ttgtagttgt tgtgccctga tgttttgtgc caccaaattg accaaaggta 540
 actgctgtaa tatggctgac gggtgttgga ggaacaaggg tgataatggt aagatgcctg 600
 ttg 603

<210> 12627
 <211> 321
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-114-Q6-N7-A12

 <400> 12627

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 cattaatgct caaccaacca ctaggatata cccaacatag tttcagacat tccgatggaa 120
 aaaaatttat tctcggaagc actttttctcc gggggggaag aagacaactc gctcgtatca 180
 ccagaccttg aggtcttcat gtgagttggt gctgtgcatg tgtcggttca tggttaccgc 240
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 ctttttggat cttgtctctg g 321

<210> 12628
 <211> 252
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-114-Q6-N7-A4

 <400> 12628

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 ggggggtggc gtgatggaaa tgaaaaaaaaa acaaaaaaaaa aaataaaaaa accaaaaaaa 120
 aagaaaaaaaa aaaatgaaca aaaagtcgaa aatgagaaga aaaaaaagaa aaaaaggggt 180
 acaggaaaaa atttgaaagt ttaaaataaa aaggaaaaaa tagagagaaa aaagaaagaa 240
 agaacagacc aa 252

<210> 12629
 <211> 478
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-114-Q6-N7-A5

 <400> 12629

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 caataagggtg gtaggattcg tcaaagcatg ttggctaaat ggtagcaatt gttgttggtg 180
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 caagaaagca acaatgtttg ccacagcttg cagatggaat ggcagaagct gttgttgagc 360
 taagaaggca taagggtctc cgacaagtag gttaaattgg agtagctgtt gtgcctgcaa 420
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<210> 12630

<211> 235

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-114-Q6-N7-A6

<400> 12630

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 gaacactgtt gagtttgtca aagcaagttg gttgaatggc agcaattgtt gcagttgtaa 180
 gaggggtgcca gcgttaggca tagcgtgcag gtagaacgac aacaacagtt gttgc 235

<210> 12631

<211> 560

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-114-Q6-N7-A7

<400> 12631

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 aagtataact cataagcaat ctaaaagagg gcaccaccaa tgatgggttg ttggtagaac 120
 gctgttgggt ttgtcaaagc aagttggttg aatggcagca attgttgagc ttgtaagagg 180
 gtgccagcgt taggcgcagc gtgcaggtag aacggcaaca actgttggtg tgtcaagaag 240
 gcaacagggc tcacatcagc tagctggctg aatgggtggt gctgttgctg ttgtaaataa 300

gcagcagagt tcaatgctgc cagttggttg aatggaagaa attgctgggg gtaggcagca 360
gctagctgac tgaatggtag ttgttggtgc aaataagcag cagagttcaa tgcagccagt 420
tggtttgaat ggaagaaact gctgttgctg aaagtaggca gcaaggtttc ctagcacaag 480
ttgttcgacc tgatgttctt tgatgttttg tgccaacaaa tgccccaag gtaactgctg 540
taaaagggct gacgggttgt 560

<210> 12632
<211> 550
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-114-Q6-N7-A8

<400> 12632

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agcttttatg agcactgcta ctagtaatgt tcacatagca tggctctgta ataatactgt 180
tgatcaccac atccaccagc agcaggcaat ccggttgcca atgaggaggc agcctcagac 240
aagcacctga gctgcagcta gcctagcaat cggaacctg aaaggggagc aagaaacgta 300
atccagccca gccttcgcca agaaggccac agaggaaggc tctccaccgt gttctccaca 360
aatgcccacc ttcaagttag gcctagcttt gcggccctc tctgtagcaa acttcaccag 420
ctgcccact cccctctggt ccaggacctc gaaggggtca tgttgaggga tgccctgagc 480
aagaagacgg gaatgaactt ccccatcatc tccctgctgt acccaaaggt catctgcgtt 540
aggtcgttcg 550

<210> 12633
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-114-Q6-N7-A9

<400> 12633

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cattattgaa ctataactca taagcaatct aaaagagggc accaccaatg atgggttgtt 120

ggtagaacac tgttgagttt gtcaaagcaa gttgggtgaa tggcagcaat tgttgagtt 180
gtaagagggt gccagcgta ggcatacggt gcaggtagaa cggcaacaac tgttggtgtg 240
tcaagaaggc agcagggtc acatcagcta gctggctgaa tggtagtagt tgttgctgct 300
gtaaataagc agcagagttc aatgctg 327

<210> 12634

<211> 486

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-114-Q6-N7-B10

<400> 12634

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tttttttttt ttttggggtt ttaattcaca atgggggttt tttttaaaat tttatgggcc 180
aaacacataa gggggggggc ctttttgggt aaacccctt ttgggggttt aagggggggg 240
ggaaccaatt ttttatttgg gaaaccccca taggggtttg gggggggggg ggtttttttg 300
gggggggggg gggggccaac ccccatattg ggggggggtt ttgggcggtt taaaaaatgg 360
ccccccctt ttgggggtt ggggggaac caaaaaacca aagggggggg gggggggggc 420
ccccggggtt ttgggggaa ccccgtagga aaatggggg ggagaaattt ggggggaata 480
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<210> 12635

<211> 581

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-114-Q6-N7-B11

<400> 12635

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gctgctgggt ttgtcaaagc aagttggtt aatggcagca attgttgcag ttgtaagagg 180
gtgccagcgt taggcgcagc gtgctggtag aacggcaaca actgtggttg tgtcaagaag 240

gtagcagggc tcacaccagc tagctggctg aatggtagta gttgttgctg ctgtaaataa 300
gcaggagagt tcaatgctgt cagttgggtg aatggaagaa attgctgggg gtaggcagca 360
gatagctggc tgaatggtag ttgttggtgt tgcaaataag aagcagagtt caatgcagct 420
agttgggtga atggaagaaa ctgctgttgc tgagagtagg cagcaagggt tgctagcaca 480
agttgttgta gttgttgctg cctgatgttt tgtgccata aatgcaccaa aggtaactgc 540
tgtaataggg ctgatgattg ttggaggaac aagggtgata a 581

<210> 12636

<211> 517

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-114-Q6-N7-B2

<400> 12636

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gggtagtttg gtgacaacat tttccagaca gaagaggatg gaaccacaat cagtttgagg 180
ggaaagagtt tcttattgat gcccaagtag accttctggg caaagatcgg aacgggtgtt 240
caggaagacg gcggcgagcc agagtggcgg gcgatgaggt cgtcgtaggg gttccgacgg 300
ccggcggcct ggctgatctg gggatcccag gagagctgca agttgaagcg gatgaagggt 360
caaaagccgt aagggcgcaa agggaggcta cactccggct tagtgcgctc gaaccgctcc 420
ttcatattgt agacatgctc ccgtcgaacc tgaacgcgct tgtncgggat cttcatcaga 480
oggaggatca gattctccgt aaagtccata atgaaac 517

<210> 12637

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-114-Q6-N7-B4

<400> 12637

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catactttac catataagtt aacaggttct tattcttttt atatacataa tgtaccaggt 120

caggttctca catgatcgca gctgacaatt aaacaccact agtgctgcaa cataaaaaaca 180
 tgtacaaggt gatggatgac tgggtgcttcc ttggaagtag gtaggttcgt ataccactcc 240
 caacttgccg aaggggtccg ggcgagcaaa gaagcggcgg cggaaatcag tggaggtctt 300
 ggttcgttaa aatctccagg gaaggccttg 330

<210> 12638

<211> 174

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-114-Q6-N7-C1

<400> 12638

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 agatgttgtt atttgacatc ctttgattta gcatttacia gaacaaaggc cagagagtcc 120
 aagaaggata gtgaccgcaa cttatgggag gaagaaaacg gggggggggg gggg 174

<210> 12639

<211> 587

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-114-Q6-N7-C10

<400> 12639

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 aactataact cataagcaat ctaaaagagg gcaccaccaa tgatgggttg ttggtagaac 120
 actgctgggt ttgtcaaagc aagttggctg aatggcagca attgttgagc ttgtaagagg 180
 gtgccaacgt taggcgcagt gtgcaggtag aacggcaaca aatgttgctg tgtcaagaag 240
 gcagcagggc tcacagcagc tagctggctg aatggtagta gttgttggtg ttgtacataa 300
 gcatgagagt tcaatgctgc cagttgggtg aatggaagaa attgccgggg gtaggcagca 360
 gctagctggc tgaatggtag tagttgttgt tgctgcaaat aagcagcaga gttcaatgca 420
 gctagttggg tgaatggcag aaactgttgt tgctgagagt aggcagcaag gtttgctagc 480
 acgagttgtt gtagttgttg tgcctgatg ttttgtgcca acaaatgcac caaaggtaac 540
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<210> 12640

<211> 552

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-114-Q6-N7-C11

<400> 12640

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aactataact cataagaaat ctaaaagagg gcaccaccaa tgatgggttg ttggtagaac 120

actgctgggt ttgtcaaagc aagttgggtg aatggcagca attgttgagc ttgtaagagg 180

gtgccagcgt taggcgcaac gtgctggtag aacggcaaca actgtgggtg tgtcaagaag 240

gtagcagggc tcacaccagc tagctggctg aatggtagta gttgttgctg ctgtaaataa 300

gcaggagagt tcaatgctgc tagttgggtg aatggaagaa attgctgggg gtaggcagca 360

ggtagctggc tgaatggtag ttgttggtgt tgcaaataag aagcagagtt caatgaacct 420

agttgggtga atggaagaaa ctgctggtgc tgagagtagg cagcaagggt tgctagcaca 480

agttgttgta tttgttggtc cctgatgttt tgtgccataa aatgcaccaa aagtgactgt 540

tgtgataggg ct 552

<210> 12641

<211> 544

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-114-Q6-N7-C12

<400> 12641

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atcgagtaca tctcatatgt aatctaaaag atggcacctc caacgatggg ttgctgcctc 120

gacaagacag gattcatcaa agagaactgg ttgtatggca gcaattgttg ctgctgtagg 180

aaggcggcga ccaatgggtt agccactacc aatggattaa gtaactgttg tcgctgttgt 240

aggtacgcag cagagttcga cagagtcagt tggttgaatg gaagcagctg ttgcaagtag 300

gcaacagggt ttgccacagc tagttgagtc agagctggta caatctgttg caacaattgt 360

tgttgcaggt atgtaggtgc attgccaca gcgagcgggc tagatgaaag cagttgttgt 420
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<210> 12642

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-114-Q6-N7-C2.

<400> 12642

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 gtagtatgag tgggtacaagc cgcacattga tggtaggtat tgtgctgctg tcaagattgc 180
 caccgcactt tgagtagttt gttgagatcc acataactca catggttggtt gttgttgctc 240
 ctcttggtt atggattgaa ccatggtgta aattgggttg tgaatgtatt gtgggtcaat 300
 ttgcctaaga tcatgacaac attggtgttg caatacctgg cagctacttg gttgtattaa 360
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<210> 12643

<211> 565

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-114-Q6-N7-C3

<400> 12643

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 attttcttcg ccacccccctt tttcccaaaa aaaaagtcag ttataatttc aaggtatggc 180
 gaatccgatg ctttttatct tgagttctcc ttgaagcctc tctggatcac gcacccggcc 240
 gagtactgct cgcgtttgct gcgcgagctg caggggcagc ggcttgatca gcaggtggca 300

gcgatccgcc tgctgttggtg ttgggaggca atactgccat agcttgccgc gccggatgga 360
gcctgaagtt gtgctgcggg agcgaggag cgggaagaa aggggcatga atctgtggcg 420
gnggatgctg gagcagaggc tgcaccgtga cctgctgcgc cggcggcggc ggatgctgca 480
ccaacggttg cacggcgggtg acctgctgcg ccgccagcgg cggtggtggt ggcagtatca 540
tccttggcgt tggaagcggc gggta 565

<210> 12644
<211> 629
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-114-Q6-N7-C4
<400> 12644

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ttgaccttac cactatatat ggtcaacgca tgttacaatt attatactgt atgatacata 180
taatgtctca ctaaagttcc ttcagaacca tggaacggta ccatagctac catcagacga 240
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ggctttctca aacttcctgc tcttcttctt ctccctgtac ctcagcaccg tggcctccct 420
gtccatggag gccaaagtga gcggcatctg gagcggagga cccgacgaga acaggctgat 480
ggccccagca ggcgtcagca ggatgccgga gcttggcatg tctgtcgttg ccatgttgtc 540
tggtactata cccacctcca ttgacgatga gaaagagact atgctgcgat ggacaattgc 600
tgatgatact agtctggcag atgtgctgg 629

<210> 12645
<211> 453
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-114-Q6-N7-C8
<400> 12645

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gggggaacac gtttcaccag ggcggggcgg ggaccaattt tccaggggga tccattttat 120
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 ttaaaaacac tttatgtgga caatgcccg accaatttcg tcatactctc ccttggagat 360
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 ttcttttaag gggcgcaatc actttaacct tta 453

<210> 12646
 <211> 610
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-114-Q6-N7-C9

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 gtgccagcgt taggcgcagc gtgctggtag aacggcaaca actgtgggttg tgtcaagaag 240
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 gcaggagagt tcaatgctgt cagttggttg aatggaagaa attgctgggg gtaggcagca 360
 gatagctggc tgaatggtag ttgttgttgt tgcaaataag aagcagagtt caatgcagct 420
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 agttgttgta gttgttgc cctgatgttt tgtgccaata aatgcaccaa aggtaactgc 540
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 attgcctgtt 610

<210> 12647
 <211> 92
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-114-Q6-N7-D1

<400> 12647

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gcctggaaaa ccaaatttta ttacatata at 92

<210> 12648

<211> 589

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-114-Q6-N7-D10

<400> 12648

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ccagcagtgc aaacttcaca tggatcccgga tcttccctcc ctcttcaca agcttcgccg 180

cgatcaccag ccagtggccc gggacgtcgt gtggcccttt taccacctcc gagatgtcga 240

cgaacttgag gagcttctg gaccggagcg ggaccggcgg tccgtcgggg tagacacctg 300

agttcagctg caccgccggc tcatgtttcg cctggtgggt gtcagcacgc tgcgtgaaag 360

gggagctcag tgtcgtgctg atcgtcgtca ggaagctccc cttctgagac gccgccggag 420

cgttctcca ctcggtctc tggatggtgc agttggggat gtgggtgtag aggaggcgca 480

natggaggac cttcttggcc caggccccct tcgagacgag ctgggcgcca gtgacgataa 540

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<210> 12649

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-114-Q6-N7-D11

<400> 12649

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aagactctag attgaaagcg catccgtaaa ggtttatctc tagagcacta gcatacaaga 120

cccaaatacc atatacaaac atgtatacat ctcatgcct taacacttcc acgtcggttt 180

ggctggagca aactacaggc ttggcttgca gttgatcaac gcacagagac gtttttcatc 240
 tttgctgac tgtgtttgac aaagaaagcg gctagcatac tttttgtgcg aagcggagcc 300
 ttctttgtca aacacagaga cgtttttcat 330

<210> 12650

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-114-Q6-N7-D12

<400> 12650

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 gatcatgatg tgtcgttgca ttgatcaggc ctgcgtcgtcg acgttgtcag cactggcagc 180
 agaagcgaga gcggaagtag tttgattctt aacgagcgca acgatactca ctgctaagaa 240
 cttatccttg atgccaagct actgcatgta agggatcaca gaagaggggt ggacaggcca 300
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<210> 12651

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-114-Q6-N7-D2

<400> 12651

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 ctgttgggtt tgtcaaagca agttggttga atggcaacaa ttgttgcagt tgtaagaggg 180
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 cagcaggggt cacatcagct agctggctga atgggtgatag ttgatgctgc tgtaaataag 300
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<210> 12652

<211> 554

<212> DNA

<213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-114-Q6-N7-D3

<400> 12652

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gttggttgaa tggcagcaat tgttgcagtt gtaagagggt gccagcgta ggcgcagcgt  180
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gctggctgaa tggtagtagt tgttgctgct gtaaataagc aggagagttc aatgctgcca  300
gttggttgaa tggaagaaat tgctgggggt aggcagcagg tagctggctg aatggtagtt  360
gttggttggtt caaataagaa gcagagttca atgcagctag ttggttgaat ggaagaaact  420
gctgttgctg agagtaggca gcaaggtttg ctagcacaag ttgttgtagt tgttggtccc  480
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<210> 12653
 <211> 583
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-114-Q6-N7-D5

<400> 12653

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gcagcagagt tcaatgctgc tagttggttg aatggaagaa attgctgggg gtaggcagca  360
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tggttgaatg gaagaaactg atgttgctga gagtatgcag caaggtttgc tagcacaagt  480
tgttgtagtt gttgtgccct gatgttttgt gccaccaaat ggaccaaag taactgctgt  540

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aataaggctg acggttggtg gaggaacaa ggtgataatg gta

583

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<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-114-Q6-N7-D7

<400> 12654

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ctgcctcgac aagacaggat tcatcaaaaa gaactgggttg tatggcaaca attgttgctt 180
ctgtaggaag gcggcgacca atggggttagc cactaccaat ggattaagta actgttgctg 240
ctgttgtagg tacccaacaa agttcgacag aatcaattgg ttgaatggaa gcagctgttg 300
caagtaggca acatgggttg ccacagctag ttgagtcaaa gctggtacaa tctgttgcaa 360
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<210> 12655

<211> 539

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-114-Q6-N7-D9

<400> 12655

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acgctgttg gtttgtaaaa gcaagttggt tgaatggcag caattgttgc agttgtaaga 180
gggtgccagc gttaggcgca gcgtgcaggt agaacggcaa caactgttgt tgtgtcaaga 240
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aagcagcaga gttcaatgct gccagttggt tgaatggaag aaattgctgg gggtaggcag 360
cagctagctg actgaatggt agttgttgtt gcaaataagc agccgagttc aatgcagcca 420
gttggttgaa tggaagaaac tgctgttgc gagagtaggc agcaagggtt tctagcacaa 480
gttggttggt ttgttggtgc ttgatgtttt gtgcgctcca atgctccaaa gggttactgc 539

<210> 12656
 <211> 459
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-114-Q6-N7-E1

 <400> 12656

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cgccaagttt cgagtttatg tacacagggg gcttcctcta cacctggacg acgccatcac 180
ccccaggcat gcgtncccat tcacgagaac tatcagcgca aagccacca acatgcttat 240
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cagtggactg acgtgaggct gaggcagcca ctgatgatga gggagtgcct ntcggggcag 360
gtgtgcagcg ccgggaagga gttgcagacg gtctgcaccg acggggggcg cagggcggtg 420
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<210> 12657
 <211> 496
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-114-Q6-N7-E10

 <400> 12657

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gctgctgggt ttgtcaaagc aagttggaca aagggcagca actgttgcag ttgtaaaagg 180
gttgcggggt tagccacaaa ctgctggtag aacggaagca cttgttggtg tgtcaaaaag 240
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gcagaggggt tcagtgcggc caattggta aatggaaaaa attgttgctg ctgagagtag 360
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agtataaaca gttgggtgaa tggaagaaat tggttggtgct taaagtaggg ggaaagggtt 480
  
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gccagagcta cttggc

496

<210> 12658

<211> 479

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-114-Q6-N7-E11

<400> 12658

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gacaaggcag ggttcatcaa aaagaactgg ttgtatggca gcaattgttg ctgctgtagg 180
aaggcagcga ccaatggggt agccaccgct tgtggattaa gtaactgttg tcgctgttgt 240
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gcagcagggt ttgccacagc tagctgagta agagctggta caatttgttg cagcaactgt 360
tggttgaaca actgttgttg caggtttgta ggtgcattgc ccatagcgag cgggctaaat 420
gaaaaaagtt gttgctgttg ttggtaggcg atagggttca ccatggctag ttgactgag 479

<210> 12659

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-114-Q6-N7-E12

<400> 12659

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gggcttctcg ggccggggcc tgctggcggt cccgctttcc ctatgggtgt tcgttttcca 180
gcttggcggt ttcattggccg ttgctgttgc ctgtgtggga ttgttgtgcg ctgcgggttg 240
ctctcggcgt gcgagccgga ggcgtgttgt gtgtggcctg ggggtgc 286

<210> 12660

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-114-Q6-N7-E4

<400> 12660

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taaatttctt tttttacaaa aagggttttc cggaacctt ttttacagtt taactaaatg 180
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gcaaagggga aggcaaaggg ccctttttca aaatattgca gggtttttta aacccttggc 300
cttaacttac catagtcaa aattaccggt gtaaaattag ccctattaag gggtttaata 360
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<210> 12661

<211> 212

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-114-Q6-N7-E6

<400> 12661

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ttaanngctg ntgggtgggag aaggcgacaa tgtttgccac attctgtggg ttgaatggca 180
gggtattgtt ttgttgcatt aaggcggtta tg 212

<210> 12662

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-114-Q6-N7-E7

<400> 12662

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aactgctgg gtttgtcaaa gcaagttggt tgaatggcag caattgttgc agttgtaaga 180
gggtgccagc gttaggcgca acgtgctggt agaacggcaa caactgtggt tgtgtcaaga 240

aggtagcagg gctcacacca gctagctggc tgaatggtag tagttgttgc tgctgtgaat 300
aagcaggaga gttcaatgct gctagttggg gtgaatggaa gaaattgctg gtggtaggca 360
tcaggtcggt gcctttaatg gt 382

<210> 12663
<211> 581
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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<400> 12663

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ataagacctt tatctagcat atctgtaata cccgtcctgc tgctgaaacc agactaaagt 180
tggcgcaggt agacaccgat cgcagcgacg aatctggctg tcgcgcgtcc atagaatccc 240
acgatgctgc tgccgatggg cgcgggtgatg cagaaacgtg tgccgctctc gatgccccat 300
ggcccccaag ctctggcggt gctggtgaca atcctgaacg aggttaagggt agtcgcacct 360
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ttccggacgt tgccgtcaag tccaccccat cgtccagcgg tcgcgcgtctg accacctgtg 480
tcggtactgt aggtgaactc gatggagtcc acggtaacgc cggcgcggta ggtcaggctc 540
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<210> 12664
<211> 581
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-114-Q6-N7-E9
<400> 12664

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gaacactgct gggtttgtca aagcaagttg gttgaatggc agcaattgtt gcagttgtaa 180

gaggggtgcc a gcgttaggcg caacgtgctg gtagaacggc aacaactgtg gttgtgtcaa 240
gaaggtagca gggctcacac cagctagctg gctgaatggg agtagttgtt gctgctgtaa 300
ataagcagga gagttcaatg ctgctagttg gttgaatgga agaaattgct gggggtaggc 360
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acctagttgg ttgaatggaa gaaactgctg ttgctgagag taggcagcaa ggtttgctag 480
cacaagttgt tgtagttgtt gtgcctgat gttttgtgcc aataaatgca ccaaaggtaa 540
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<210> 12665

<211> 117

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-114-Q6-N7-F1

<400> 12665

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cagttttaca ggtactcact ttactgccag aaaaaaattt tagcatgatt tcatgaa 117

<210> 12666

<211> 635

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-114-Q6-N7-F11

<400> 12666

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aactttatta ttgaattaca actaataagc aatctaaaag agggcaccac caatgatgtg 120

ttgttggttag gaggctgctg ggtttgctcaa agcaagttgg acaaagggca acaattgttg 180

tagttgtaag agggttgcgg ggtagccgc aaactgctgg tagaaaggca gcaactgttg 240

ctgtgtcaag aaggaagcac ggcttgctgc agctagctgg ctaaattgga gtaatatattg 300

ctgctgcaaa taagcagcga ggttcagtgc ggccaattgg ttaaatggaa gaagttgttg 360

ttgatgagag taggcagtag ctagctggct gaatggtaat agttgttgct gcaaataagc 420

agcaggggttc agtgtagata gttggttgaa tggaagaaat tgttggttgct gatagtaggg 480

agaaagggttt gccagagcta cttggttgat cacaggtagc acgagttgct gcagctgctg 540
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 ggtgataaag gtatgttgct tgctgcgatt gcttg 635

<210> 12667
 <211> 453
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-114-Q6-N7-F12
 <400> 12667

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 aagaaggtag cagggctcac accagctagc tggctgaatg gtagtagttg ttgctgctgt 300
 aaataagcag gagagttcaa tgctgccagt tggttgaatg gaagaaattg ctgggggtag 360
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 gcagctagtt ggttgaatgg aagaaactgc tgt 453

<210> 12668
 <211> 561
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-114-Q6-N7-F4
 <400> 12668

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 cgctgttggg tttgtcaaag caagttggtt gaatggcagc aattgttgca gttgtaagag 180
 ggtgccagcg ttaggcgcag cgtgcaggta gaacggcaac aactgttggt gtgtcaagaa 240
 ggcaacaggg ctcacatcag ctagctggct gaatgggtgt agctgttgct gttgtaaata 300
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agctagctga ctgaatggta gttgttgttg caaataagca gcagagttca atgcagccag 420
 ttggttgaat ggaagaaact gctgttgctg agagtaggca gcaaggtttc ctagcacacg 480
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<210> 12669

<211> 578

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-114-Q6-N7-F6

<400> 12669

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 gtgccagcgt taggcgcaac gtgctggtag aacggcaaca actgtggttg tgtcaagaag 240
 gtagcagggc tcacaccagc tagctggctg aatggtagta gttgttgctg ctgtaaataa 300
 gcaggagagt tcaatgctgc tagttggttg aatggaagaa attgctgggg gtaggcagca 360
 ggtagctggc tgaatggtag ttgttgttgt tgcaataag aagcagagtt caatgaacct 420
 agttggttga atggaagaaa ctgctgttgc tgagagtagg cagcaagggt tgctagcaca 480
 agttgttga gttgttgc cctgatgttt tgtgccaata aatgcaccaa aggtaactgt 540
 tgtaataggg ctgatgattg ttggaggaac aaggtgat 578

<210> 12670

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-114-Q6-N7-F7

<400> 12670

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 aggaaacttt ttttttggg gggggcacct tcattatgaa aaaaacttta ttattgaatt 120
 acaactaata agtaatttaa aagaggggcc ccccaaagat gtgttttttg tcggaggggg 180

ttggggtttgt taaagtaagt gggcaaaagg gcaacaattg gaggaatta ataaagggtc 240
gaggggttag cccaaa 256

<210> 12671
<211> 357
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-114-Q6-N7-G1

<400> 12671

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agaatgctgt tggggttgta aaagcaagtt ggttgaatgg gagaaattgt tggagttgta 180
agaaggtgcc agcgtaggc gcagagtgt ggtagaacgg taacaactgt ggttgtgtta 240
agaaggtata aggggtattac accaggtagg tgggtgaatg gtagtagttg ttgatggtgt 300
aaataagtag gagagttaaa tgttgttatt tgggtgaatg gaagaaattg atggggg 357

<210> 12672
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-114-Q6-N7-G10

<400> 12672

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gaaaaagaag ggggggcaaa caaaaagaag ggggaggggg aaaagggggg gggggggaaa 180
aaaaaggggg ggggaaaaga aaaaaaagg gggggggggg acaaaaaggg ggggggggag 240
ggccctgagg gttggtgcca ataaaaacc caaggaaagc gcggaaaagg ggagggggaa 300
aaaaggggga ccaggg 316

<210> 12673
<211> 600
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-114-Q6-N7-G11

<400> 12673

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tgaactagct atagccctat aggtagctag tcagcggctc cattacatta ttactacagt 180
acatagtttc cttagtagta gacaccgccc gcagctgcgt tgcaagggca gggacctggc 240
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tcgacgcact ggcccaggaa cgggctgccg acgtgcccg acgccgcaga tccgaactgc 540
tggcacgggc ttagctgcgg tgggtgagtg gggattgcc atggctgcgg ctgctgctgc 600

<210> 12674

<211> 589

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-114-Q6-N7-G12

<400> 12674

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tggttggtaga atgctgctgg gtttgtcaaa gcaagttggt tgaatggcag caattgttgc 180
agttgtaaga ggtgcccagc gttaggcgca gcgtgctggt agaacggcaa caactgtggt 240
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ttcaatgcag ctagtgtgtt gaatggaaga aactgctgtt gctgatagta ggcagcaagg 480
tttgctagca caagttgttg gagttgttgt gccctgatg tttgtgcaa taaatgcacc 540
aaaggtaact gcttgaatag ggctgatgat tggtggagga acaagggtg 589

<210> 12675
 <211> 348
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-114-Q6-N7-G2

 <400> 12675

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 tggatatggg ttgaaattgt tagaggataa aggagcgggg ggaaaaagg gtgagggggg 180
 ggggggggaa gggggggggg taataagagt aggggggggg ggggtggttg ggggttgtga 240
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 atttggtgtg gggggggggg gggggggggt ttttgggaag gggggggg 348

<210> 12676
 <211> 155
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-114-Q6-N7-G3

 <400> 12676

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 cccatacata gttttttcaa ggggggacac ccccg 155

<210> 12677
 <211> 370
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-114-Q6-N7-G6

 <400> 12677

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 gaaccaactg ttggcttaca aagaaagcag cctcccaggg gtttgtccct agccagggtt 180

atttgaacct ttgtttctaa taaagtcccc ttccaactcc caatttttgc acctagtcac 240
agacaccgta atttacacaa aaccagaagg cggtaggcag cccaaaatgt tatggctccc 300
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atggttcaac 370

<210> 12678

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-114-Q6-N7-G7

<400> 12678

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aacaacaca taagcaaaca aacacatgaa tgctgatgca gatgccacat tattctatct 120
agaggttggt ggaatttggt tggtacgttc ataccatgta gaagccaaaa ggtggtggtt 180
cataccatat aattaccggc acgggaagct accctactgc ttggcaaaaag ccaaactgaa 240
cgcgacacac attcgctgtc catgggtcagt gtgtatgtac ctgcttatgg aaagggaag 300
ctaacattgc ctttaatat ggccccgagc ccttggtgga tgacaaa 347

<210> 12679

<211> 623

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-114-Q6-N7-G9

<400> 12679

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ccattatcga gtacatctca tatgtaatct aaaagatggc accaccaacg atgggttgct 120
gccacgacaa ggcagggttc atcaaagaga actggttgta tggcagcaat tgttgctgct 180
gtaggaaggc agcgaccaat gggtagcca ccgctagtgg attaagtaac tgttgctgct 240
gttgtaggta cgcagcagag ttcgacacag tcagttgggt gaatggaagt agttgttgca 300
agtaggcagc agggtttgcc acagctagct gagtaagagc tgggtacaatt tgttgcaagc 360
actgttggtg caacaactgt tgttgcaagg atgtaggtgc attgcccata gcgagcgggc 420

tagatgaaag aagttgttgc tgttgtaggt aggcgatagg gttcaccatg gctagttgac 480
 tgagcgctgg tagaaactgt tgcaactggt gttgttgttg gtatgcagct acgtttgccca 540
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<210> 12680

<211> 158

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-114-Q6-N7-H1

<400> 12680

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 gctgccacaa caaggcaggg attatcaaag agaactgg 158

<210> 12681

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-114-Q6-N7-H10

<400> 12681

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 tcgaaatgta acaattcttg ggggtgaaac aacagaaatt gttttcgatt tgggtacaaa 180
 actgatccaa tcaccagcta aatgtgcctc ctactacaat gcataaagtt ttcgtttctg 240
 ctagcactcg aggcacgtga acagtagctt ccacacaatc agtatgttct gttgctgcag 300
 cagtttagca tactaccgag gaccctcggg gaacgttaat tgctggaaca gcttttcttg 360
 tttgggtgaaa tatacacaat gcaaaccaat ggggggtgctc caatgtgcta aaaaccata 420
 ccagccaccc ccttaacttt tgctgacaac tgctgt 456

<210> 12682

<211> 613

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-114-Q6-N7-H12
 <400> 12682

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 ggtagaatgc tgctgggttt gtcaaagcaa gttgggtgaa tggcagcaat tgttgagtt 180
 gtaagagggt gccagcgta ggcgcagcgt gctggtagaa cggcaacaac tgtgggtgtg 240
 tcaagaagggt agcagggctc acaccagcta gctggctgaa tggtagtagt tgttgctgct 300
 gtaaataagc aggagagttc aatgctgtca gttgggtgaa tggaagaaat tgctgggggt 360
 aggcagcaga tagctggctg aatggtagtt gttgttggtt caaataataa gcagagctca 420
 atgcagctag ttgggtgaat ggaagaaact gctgttgctg agagtaggca gcaaggtttg 480
 ctagcacaag ttgttgtagt tgttggtccc tgatgttttg tgccaataaa tgcaccaaag 540
 gtaactgctg taatagggtc gatgattgtt ggaggaacag ggtgataaag gaagagccac 600
 ctgcgattgc ctg 613

<210> 12683
 <211> 224
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-114-Q6-N7-H3
 <400> 12683

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 gtggaacgct gatgggctag ccaagatagc agctagaatg gcagctatag ccgcagatgt 180
 aaaagggggg cagcaccaag cgcagcgggc tagggaaatg gaaa 224

<210> 12684
 <211> 290
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-114-Q6-N7-H6

<400> 12684

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attattgaac tataactcat aagaaatcta aaagagggca ccaccaatga tgggttggtg 120
gtagaacact gctaggtttg tcaaagcaag ttggttgaat ggcagcaatt gttgcagatg 180
taagaggggtg ccagcgttag ggcgcagctg ctggtagaac ggcaacaact gtggttggtg 240
caagaaggta gcagggctca caccagctag ctggctatat gataatagaa 290

<210> 12685

<211> 173

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-114-Q6-N7-H7

<400> 12685

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ctgtaactca taagcaatgt taaagggggc accaccaatg atgggtggtg ggtggaacac 120
tggtggggtt gttaaagcaa gttgggggaa tggcagggat ggttgcaatt ggt 173

<210> 12686

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-114-Q6-N7-H8

<400> 12686

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tcggcttact gcattattac atatttagat agagagggat ggattgagga gatttcccaa 120
atttcatgaa tcaattgttg ggcggaatgg cagcggagac cccacagggg ttggtgcggt 180
agctgggcag cttgttctgg ttctggtaga gtccacccat ggccggcatg ttctgcgcca 240
ttattatggc catgggggtg aaaccctggg cttccagcaa ctgctgctgc ttctgcatca 300
gaactggctt gtacaggctg ttgtttgcgg aagcggcacg ctcaagcttc atcatcattt 360
gtaaattctg taaaaggac tgcactttca ttattttaat ttttttttg acaatatttt 420
t 421

<210> 12687

<211> 624

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-115-Q6-N7-A1

<400> 12687

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gccgagggcc ttttcgcacg gccatgcac atgcaattgc actagcagat gctacacaca 180
cgcacaaaca tgtgcgccgc taagttcaga agaggacatt gatatgggtg gacaatacta 240
gcgcggtagt gccacgaacc gggtgccacc actacacgag acaacacggc acggcatagt 300
acgcacatac atagagccta tatatatact agtactagtc agagaaacca ccagcaggca 360
caaaagatcc gcgcaccccg gtcgacgcgg actgacagac gagctagatg tccgtgccgt 420
acgtcggcta gctaaacctt ggtgaaacgg aggtagccct tcttggaggg caggtcggcg 480
gtctcgaacc cctgcgggaa catcttcctg gcctcctcgt cggagacgcc gggcgcgatg 540
acggcgcact ccccgggctt ccagttggcg ggcgtggcca ccttcccgcc atgcttggcg 600
gcggtgagca gcgagtcgac agcg 624

<210> 12688

<211> 497

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-115-Q6-N7-A11

<400> 12688

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gctgcaaggc agggttcatc aaaaaaaact gggtgtatgg caccaattgt tgttgctgct 180
gcaggaaggt acccccctaat ggggtaccca ctgccaatgg attagtaac tgttgcccct 240
gttgtaggtc cccaccaa at tttgacacac ccagttgggt gaatggaacc aactgttgta 300
agtaggcacc agggtttgcc acagctagct gagtcaaagc tgggtccaatt tgttgacca 360

actgttggtg taggtcccta ggtccattgc ccaccgcgag cgggctaaat aaaagtagtt 420
 gtaggtagac ggcagggttc accatggcta gttgactgac cactggcata aactgttgca 480
 gctgttggtg ttgctgg 497

<210> 12689
 <211> 479
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-115-Q6-N7-A12
 <400> 12689

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 tattttggga cttaaacc aaaggcaatta aaaagggggc cccccaagg gggggggggg 120
 gggaaaaaac tggggggttt taaaaaaaaa gggggggaaa ggggaaaaat tgtggcagtt 180
 taaaaggggg gcccgcttg gggatttggg ggggggaaaa aggaaaaaac tttttttggt 240
 taaaaaagg gaagggggca aaaaaaat tttttttgaa ggggaaaaat tgggtgtgtt 300
 ttaaaaaaac cgaaaaatta aatgctgttt ttggggaaaa aggaaaaaaa tggggggggg 360
 ggggaaaaac aaagggggga aagggaaggg gggggggcaa aaaaacccca aatttaaatt 420
 ccccccttgg ggggaaagga aaaaaatatt tttttttaa atataacaaa ggggtttttt 479

<210> 12690
 <211> 485
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-115-Q6-N7-A3
 <400> 12690

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 caaattaaac gggggggacc cccgccgaac aagaacaaca attcccaaac ccaagttttt 180
 tttttggggg gacttgcttt tataaagcat gcgtgcgttt taaattaccc caagggcccg 240
 caaacatggg ctttttactt tccattcatt ttgcccgaatt taacgggggg tgctcctggg 300
 cttgcccgtt taaaaccaat cttaaacctt gggggagttt ggcttcgggc cgtccaaaaa 360

gttggccccc attccctttg tggccaggtt tcttccccgg tggaaaacac tttgccacac 420
 ttttccgggg ccccgcgggg ttttttaaaa caacgaagac cacaggggta ccgggggttt 480
 tgggg 485

<210> 12691
 <211> 623
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-115-Q6-N7-A4
 <400> 12691

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 gctgctgggt ttgtcaaagc aagttgggtg aatggcagca attgttgcag ttgtaagagg 180
 gtgccagcgt taggcgcagc gtgctggtag aacggcaaca actgtggttg tatcaagaag 240
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 ggtagctggc tgaatggtag ttgttggtgt tgcaaataag aagcagagtt caatgcagct 420
 agttggttga atggaagaaa ctgctgttgc tgagagtagg cagcaagggt tgctagcaca 480
 agttgttga gttgttgtgc cctgatgttt tgtgccaata aatgcaccaa aggtaactga 540
 tgtaataggg ctgatgattg ttggaggaac aagggtgata aaggtaagat gccagctgtg 600
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<210> 12692
 <211> 254
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-115-Q6-N7-A5
 <400> 12692

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 tttttggggg gggggggggg gccaccccc caattggggg gggggttggg gggttttcaa 180

aaaagcccc ccccttttgg gggggtgggg ggaacccaaa aaaaaaaagg gggggggggg 240
 ggggcccccc cggg 254

<210> 12693
 <211> 616
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-115-Q6-N7-A6
 <400> 12693

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 atgctgctgg gtttgtcaaa gcaagttggt tgaatggcag caattgttgc agttgtaaga 180
 ggggtgccagc gttaggcgca gcgtgctggt agaacggcaa caactgtggt tgtgtcaaga 240
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 cagatagctg gctgaatggt agttgttgtt gttgcaaata agaagcagag ttcaatgcag 420
 ctagttgggt gaatggaaga aactgctggt gctgagagta ggcagcaagg tttgctagca 480
 caagttgttg tagttgttgt gccctgatgt tttgtgcaa taaatgcacc aaaggtaact 540
 gctgtaatag ggctgatgat tgttgaggga acaagggtga taaaggtaag atgccagctg 600
 cgattgctg ttggat 616

<210> 12694
 <211> 604
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-115-Q6-N7-A7
 <400> 12694

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 gtagaacact gttgagtttg tcaaagcaag ttggttgaat ggcagcaatt gttgcagttg 180
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caagaaggca gcagggtca catcagctag ctggctgaat ggtagtagtt gttgctgctg 300
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 cacaagttgt tgtagttgtt gtgccctgat gttttgtgcc accaaatgga ccaaaggtaa 540
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 tgca 604

<210> 12695
 <211> 608
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-115-Q6-N7-A8
 <400> 12695

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 aactataact cataagcaat ctaaaagagg gcaccaccaa tgatgggttg ttggtagaac 120
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 tgttgtagtt gttgtgccct gatgttttgt gccaccaaatt ggaccaaagg taactgctgt 540
 aatagggtg acggttggtg gaggaacaag ggtgataatg gtaagatgcc tgttgcgatt 600
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<210> 12696
 <211> 445
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-115-Q6-N7-A9

<400> 12696

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cactgctggg tttgtcaaaa caagttgggtc gaatggcaac aattgttgca gttttaaaag 180
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aacctgaaag ttcaatgctt ccaattgggt gaatggaaaa aatttcccgg gtaggcaac 360
aactaactgg cttaatggta gtaattgttg tttctgcaaa taagcagcaa agttcaatgc 420
aacttgttgg ttgaatggca aaac 445

<210> 12697

<211> 411

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-115-Q6-N7-B1

<400> 12697

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ggtaaaaaag aagaaaaaaa gggggggggg gaaaaaaaagg ggggggaaa aaaaaaaca 180
gtgtttaaga aagaaaaaaa aaaaaaaggg ggggggaaaa aaaaggggga gaaaaatagg 240
gaaaaggggg ggaaaaaaa aaatggacga ggggggggga aaaaaaggaa aaaggggggg 300
gtcgggggaa tgggggaaag caaataggca aaaaagggcg gaaggcgaaa ggggaaaaaa 360
actagcgggc cggagaaggg gagcaaataa tngggggacg gatggggggg g 411

<210> 12698

<211> 464

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-115-Q6-N7-B10

<400> 12698

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 gttaacacgc agagaggttt ttacatacac gtccaacgtt tccactcagg ctcatgctac 180
 gtacgcacgt tggtcgcgcg ccacctcttt gttgcttttt gctcgttttg gcgagcgcgg 240
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 ccgcggccgg gggtccttc gcgttctctc tccttttttt cccgctcttc acgtccgtgg 360
 gggtcccttt cccacggcc gccgtggggg tcttcgcgtt cctcctcttc cttttgctcc 420
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<210> 12699

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-115-Q6-N7-B11

<400> 12699

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 ttacttgata ttataaaatg aatatgccat ttgcgactac atccccatcc ccatcatgca 180
 tgcttcgaac cacttgctag tatcatcaag acggaccatg catgatgtca agatccatca 240
 attttcctta ttgtctaata ggttgcata aaactccac atactaattt cagctgccac 300
 gttctcactg acatcacctt gcaaa 325

<210> 12700

<211> 550

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-115-Q6-N7-B12

<400> 12700

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 ttccttttgt ccggccaaag gtctctggca ttccaatact acagaaaagt cttcgggcta 180

taagtaaact gaaacgggga acacagcgac agagagagag agagaaacta gggaaaacgc 240
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 catgcctgcc cagttccaca gctgccttg gttggtcacc agttcccttg tacagcgatt 360
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 cggtcagct aaccgggtctt agcgtctccg ttggcgagca caggtttctc tgttgctgct 480
 tgggccacct ttgccgcgta ggaaatagct ggagtggcgg tgcgttctc tgcagaagcc 540
 ttgcgcgcct 550

<210> 12701

<211> 598

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-115-Q6-N7-B2

<400> 12701

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 ttgttggttag gaggccgctc ggtctgtcaa agcaagttgg acaaaggga acaattgttg 180
 tagttgtaag agggttgcgg ggtagccgc aaactgctgg tagaaaggca gcaactgttg 240
 ctgtgtcaag aaggaagcac ggtttctgct agctagctgg ctaaatggta gtagtatttg 300
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 agcaggggtc agtgtagaca gttggttgaa tggaagaaat tgttggtgct gagagtaggg 480
 agaaaggttt gccagagcta cttggttgat cacaggtagc acgagttgct gcagctgctg 540
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<210> 12702

<211> 615

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-115-Q6-N7-B3

<400> 12702

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 gagtcacgga caacgccggc gcggacggtc aggtcttgca gacgcctcgg cggctccgtc 540
 gtgcgcatgt cctgcgccga cctccctctt ccacccaca ctccgacctt ggtgacgacg 600
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<210> 12703

<211> 556

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-115-Q6-N7-B4

<400> 12703

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 tgcaaggcag ggttcatcaa aaagaactgg ttgtatggca acaattgttg ttgctgctgc 180
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<210> 12704

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 gggccaacgt taggccaac ctgctggtta aaccgcaaca actgtggttt tttcaaaaag 240
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<210> 12705
 <211> 580
 <212> DNA
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 <223> Clone ID: LIB3061-115-Q6-N7-B6
 <400> 12705

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 tgacagaccc tcatatcgta ccatctttgt gaacgcatac agtgtacctt tgtagcgatg 480
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<210> 12706
 <211> 617
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-115-Q6-N7-B7

<400> 12706

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acaagttcct tttcttctcc cgaattaatc acggcggaat tacacaccgt tggaaaattg  180
gagcttttac ttacacccat ggagccgtca ctgtaccatt ccatcgggtca ccagctcctg  240
caggccgcgc ctgagcctct cagcggccag cctgggtgtcc tcttccttga gccctccgaa  300
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cttgttcgcg agccacctga cagcctcgaa gtcgtccgag cagctgtccg gtagctttgc  420
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<210> 12707
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-115-Q6-N7-B9

<400> 12707

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tcggccccgg ggggtggccc gggatttccg gccgggcct tgaaggcttc ccacctttcc  180
ttttgggggg ggggttttaa cctgggggta ataaggcca aagttttttc ctgggggaaa  240
tttttttccc tttccaattc cccaacctt acagcccgaa ggattaaatt gtaaacctg  300
ggggccctat gagggggcgc accceccata aattgggtgg gcgcactggc ccctttttta  360
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<210> 12708

<211> 494

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-115-Q6-N7-C1

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 ggaaatataa aaaaagactc ggcaaccatc agggagcagc gaagcgatcc acgatccact 180
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 gccacagttc cggccatttt ctccacgcc gcgacctgga ccaggtcgg gatgcccttc 300
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 tgcacggacc ccgagtgtct ggactggcc gcctcgccgg cgaagtgcag gtttttgacg 420
 ggggcgggga accttgcgca cacgttgccc ggtttcgca ccaggtcgca cgagtaggac 480
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<210> 12709

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-115-Q6-N7-C10

<400> 12709

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 gcaattgttg cagttgtaag agggtgccaa cgtaggcgc agtgtgcagg tagaacggca 180
 acaaattgtt ctgtgtcaag aaggcagcag ggctcacagc agctagctgg ctgaatggta 240
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aataagcagc agagttcaat gcagctagtt ggttgaatgg cagaaactgt tggtgctgag 420
agtaggcagc aaggtttgct agcacgagtt gttgtagttg 460

<210> 12710
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-115-Q6-N7-C11

<400> 12710

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aactatttac acggcagatt cgctggcgtc gaggcccacc gaaccatcat tcgccatgaa 180
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acaacaccgg tcaccaaagc tcagttcttc acacgtatga gtcaagatag tcgaatccgc 300
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gtttcttgta g 431

<210> 12711
<211> 474
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-115-Q6-N7-C12

<400> 12711

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ggttttggtg gggccccccc ccaaaaaaaaa aaaagggggg gggccccccc ccggggggggg 180
gggggggaaa accccggggg gtttcaaaca aagggggggg ggggggaaaa accccttggg 240
gggggggggg gggggggggg ggttttcccc aaaaggggtg tggggggggc cccccggggg 300
ttggccccca aaaaaacccc aaaagggact gtttttaagg gggggtaatg tggggggggg 360
gaccgggggt aaaaaggaaa accccccccc cggggggggg gggggcccc ggggggggaa 420

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474

<210> 12712

<211> 554

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-115-Q6-N7-C2

<400> 12712

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agaagcgaac ggtaacacga tactatagat agataagata actcggccga agdcaggatg 180
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cgccgtagcc gccaccgccc ccataaccgc cgtcacggcg cccgccacca tagccgcccgc 360
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cctgggttaac ggtgatgtta cggccgtcga gtccttgcc gttcatgttc tcgatagcgt 480
cgagcatgga gttctcggag gagaaggtaa cgaagccga gcccggggac ctccccgtct 540
cccgtcgggt gatg 554

<210> 12713

<211> 497

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-115-Q6-N7-C3

<400> 12713

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gctgctgggt ttgtcaaagc aagttgggtg aatggcagca attgttgcag ttgtaagagg 180
gtgccagcgt taggcgcagc gtgctggtag aacggcaaca actgtgggtg tgtcaagaag 240
gtagcagggc tcacaccagc tagctggctg aatggtagta gttgttgctg ctgtaaataa 300
gcaggagagt tcaatgctgt cagttgggtg aatggaagaa attgctgggg gtaggcagca 360

gatagctggc tgaatggtag ttgttgttgt tgcaaataaa aagcagagtt caatgcagct 420
 agttgggtga atggaagaaa ctgctgttgc tgagagtagg cagcaagggt tgctagcaca 480
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<210> 12714

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-115-Q6-N7-C4

<400> 12714

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 ttttactcaa tcatcgccgc taaatgactc aacttgcttg cttgccagcg gtttttctac 180
 aacacatttt ttttttagtg ggggacaccc ccgcagcaa cgtaggggca ttgagtcggt 240
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 acctggccgt ttttcggttt ttttttcagg atggactgga ggaccaaacc caatatcgcc 360
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<210> 12715

<211> 575

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-115-Q6-N7-C6

<400> 12715

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 aaggcagtga ccaatgggtt aggcactgct agtggattaa gtaactgttg tgcgtgttgt 240
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 gcagcaagggt ttgccacagc tagctgagtc agagctggta caatctgttg cagcaattgt 360
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tggtttaggt aggcggcagg gttcaccatg gctagttgac tgagcgctgg cagaaaactgt 480
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<210> 12716
 <211> 592
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-115-Q6-N7-C8
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 agttgttgta gttgttgtgc cctgatgttt tgtgccaaata aatgcaccaa aggtaactgc 540
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<210> 12717
 <211> 575
 <212> DNA
 <213> Zea mays
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 ccaagaaatg taggttttat tagccatgat acataaaagt aggctttgtt tatttggcct 180
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atgcgaacac ggtcagggcg aaaatcctgg gtcacaactg agccaaccgg tagaacttga 300
atggttagcgt tgggcaagtc ttttaagaatg atctctcttg cctccttgat ggacatgccc 360
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gaggggaatc gatttagcaa gagaagtaga catcaacatt gatcaaacat gtatacaaac 540
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<210> 12718

<211> 580

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-115-Q6-N7-D10

<400> 12718

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tgctgcgggt gttgttggtg ttgttgaaaca tgaacttctt gttgttgctg atgtttttgt 540
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<210> 12719

<211> 587

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-115-Q6-N7-D11

<400> 12719

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 gtaagagggt gccagcggtta ggcgcagcgt gctggtagaa cggcaacaac tgtgggttgta 240
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 gtaaataagc aggagagttc aatgctgcc a gttgggttgaa tggaagaaat tgctgggggt 360
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 ctagcacaag ttgttgtagt tgttggtgcc tgatgttttg tgccaataaa tgcaccaaag 540
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<210> 12720
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 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-115-Q6-N7-D12
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 ccgaaaccaa aaaaaaagtc caaggggagc ccccatggcc ccatggctgg cggcaggagg 180
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<210> 12721
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 <213> Zea mays
 <223> Clone ID: LIB3061-115-Q6-N7-D4

<400> 12721

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ggaaaaaat ggggggtttt aaaaaaggag ggtgggtggg gggaaaaatt tgggggtgg 180
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taaaaggggg ggggggtcta aaacgggggg gggggggggc cccggatttt tcgcgggggg 300
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<210> 12722

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-115-Q6-N7-D7

<400> 12722

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cctcatgcac tatgctcttc gcagttactt ggaggggatt gtttccccgc cgagaattca 180
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gggggggaat tcccttttga ccttccgcgg gcaggccggc aggttctctt tgggggcctt 300
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<210> 12723

<211> 500

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-115-Q6-N7-E10

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gcaattcttt catgtgccaa ataactttg gaaacattac tcaattgcaa actgaaaata 180

gtttgttatg gctttcaagt taggagataa tgccttcggt tagtgattat gcaacaagct 240
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ccattttcaa aagcatttca atgacctttg ccgcttggtt tggttccagt tgctcaacca 420
gtgggtatag gtttttacca aggatcgctt tttgctgttc aagattagca tttgcaaggg 480
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<210> 12724
<211> 466
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-115-Q6-N7-E11
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tgctgctgca aataagcagc ggggttcagt gcggccaatt ggttaaattg aagaagtgtg 360
tggtgctgag agtaggcagt agctagctgg ctgaatggta atagttgttg ctgcaaataa 420
gcagcagggt tcagtgtaga cagttggttg aatggaagaa attggt 466

<210> 12725
<211> 548
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-115-Q6-N7-E2
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gctgggcatg gtcaacataa atagtttgca gataccagac ctccggggca atttacacct 180

tccttttagga ctgtttcccg aaaaatagtc tggcctcaga aaactgtggg caaagaggaa 240
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caacatcatg agctgagtta tatgtggccg atggattcag cttagccaac aaaaaccttg 480
cctgtgagcc atgttggta cagacaacta gtcttggaac tggaaatcga ccttttatta 540
tcattctgc 548

<210> 12726
<211> 422
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-115-Q6-N7-E4
<400> 12726

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caaaataaga accttttaaat agaaaggatg cgcaaagtcc gatccacaca aacttaaaaa 180
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tcacccattt ccatttccat ccagccggcg gggtttgttt gagggggcag gacgtgcact 360
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<210> 12727
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<223> Clone ID: LIB3061-115-Q6-N7-E5
<400> 12727

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gctgctgggt ttgtcaaagc aagttggaca aagggcagca actgttgcag ttgtaagagg 180
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 gccagagcta cttggctgat cactggtagc acgagttgct gcaactgttc tgcctgatg 540
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<210> 12728
 <211> 565
 <212> DNA
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 gctgctgggt ttgtcaaagc aagttggttg aatggcagca attgttgctg ttgtaaaagg 180
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 agttggttga atggaagaaa ctgctgttgc tgagagtagg caccaagggt tgctagcaca 480
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<210> 12729
 <211> 431
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-115-Q6-N7-E7

<400> 12729

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tttcgctccg acaagacagg attcatcaaa gagaaccggt tgtatggcag caattgttgc 180
tgctgtagga aggcagcgac caatgggtta gccactgcc aatggattaag taactgttgc 240
cgctgttgta ggtacgcaac agagttcgac atagttagtt ggttgaatgg aagcagctgt 300
tgcaagtagg caacaggggt tgccacagct agctgagtta gagctggtac aatctgttgc 360
aacaattctt gttgcaggta tgtaggtgca ttggccacag cgagcgggct agatgaaagc 420
agttgttgct g 431

<210> 12730

<211> 614

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-115-Q6-N7-E9

<400> 12730

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gtgccagcgt taggcatagc gtgcaggtag aacggcaaca actgttggtg tgtcaagaag 240
gcagcagggc tcacatcagc tagctggctg aatggtagta gttgttgctg ctgtaaataa 300
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tggttgaatg gaagaaactg atgttgctga gagtatgcag caaggtttgc tagcacaagt 480
tgttgtagtt tgttggtccc tgatgttttg tgccaccaa tggaccaaag gtaactgctg 540
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tgctgttggt atct 614

<210> 12731

<211> 397

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-115-Q6-N7-F1

<400> 12731

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 ttcccaaata tcatgaatca gtagtagggc ggaatggcag cggagacgcc acaggggttg 180
 gtgcggtagc tgggcagctg gtactggtag agtccacca tggccggcat gttctgcgcc 240
 atcatcatgg ccatggggtt gagaccctgg gctgccagca gctgctgctg ctgctgcac 300
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 tgcagctgct gcgcgacgga ctgcacgtcc atcatcc 397

<210> 12732
 <211> 506
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-115-Q6-N7-F10

<400> 12732

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 aaatttgttg catttgaaag gggggcccag ctttggggcc aggggggttg taaaacggaa 180
 aaaattgggg tggtttaaaa aggggggggg ggttaaaacc acttagtggg ttaaagggaa 240
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 aaaattgttg ggggtgggca aaaggaacct ggctaaaggg aatttgtggt tgttcaaaat 360
 aaaaagcagg gttaaaggca cttggtgggt taaatggaaa aaactgtttt tgttaaaagt 420
 aggcaaaagg gtttgctacc acaatttggt gaatttgttg gcccctgttt ttttgggcca 480
 ataattgccc caaaggtaac tgtttt 506

<210> 12733
 <211> 581
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-115-Q6-N7-F2

<400> 12733

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aactgctgg gtttgtcaaa gcaagttggt tgaatggcag caattgttgc agttgtaaga 180
gggtgccagc gttaggcgca acgtgctggt agaacggcaa caactgtggt tgtgtcaaaa 240
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aagcaggaaa gttcaatgct gctagttggt tgaatggaaa aaattgctgg gggtaggcag 360
caggtagctg gctgaatggt agttgttgtt gttgcaaata aaaagcagag ttcaatgaac 420
ctagttggtt gaatggaaga aactgctgtt gctgagagta ggcagcaagg tttgctagca 480
caagttgttg tagttgttgt gccctgatgt tttgtgcca taaatgcacc aaaggtaact 540
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<210> 12734

<211> 66

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-115-Q6-N7-F3

<400> 12734

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<210> 12735

<211> 116

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-115-Q6-N7-F4

<400> 12735

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<210> 12736
 <211> 603
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-115-Q6-N7-F5

<400> 12736.

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cagctggagc atttccaaac cgcagttcaa gtattcagta atcagtgtca aaacaggctg 180
ggaaaaaaac agcctaaact caccagctgt caaccccccta tcccatttcc caaacatcat 240
gaggaaacac aaatcacatt tatgatgtgg aacaagcttc tagctcttgg aggacgctgc 300
gccatgcatt tgcaatatct ttagctagct tagcctgacc cttggcaaatt tcatggaatg 360
cgagtccaat atcatctgtc ttttgctcct ggaaacgagc gagctcttca ttcattagtc 420
taactatgtg ttcaaacttc ttagtagcct cctcactgtc tgctttcaac tctcgaaact 480
caaattctgc ttggcatac ttttcagggt tcatgaactt caatttttca agattaagct 540
ctttataactt cctctcctgg tccaataaaa aagctgcctg aaagcattgg ctcgatcaag 600
cat 603
  
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<210> 12737
 <211> 447
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 12737

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agagggtacaa ttagaacagc tcgactgtgc actatgtttt ttctcccatt tgctatattg 180
atcttcagaa taaagaatat gcgactcaac aagaacagct aggctgttac caaagacgga 240
atctaattta agagatcatg tcgccacaaa acatctccat cacagggttt caaggatttg 300
ccattcatta cagatggaag tcattgggtt agaatttggg ggtgatttgg cgacctattg 360
  
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ggtcagcatc tcatttcggg ctatccatcc tcatctgggt agcacccta tattttcttca 420
atgttctatt attcttctgc tcttgct 447

<210> 12738

<211> 607

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-115-Q6-N7-F7

<400> 12738

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ctgccacca tggatgatgc tgacacatta ttactcaatc atcgccgcta aatgaactcaa 120
ctagctagct agccagcggc tatactacag cacatagttt cttcagtggg ggacaccgcc 180
ggcagcagcg taggggcatg gagtcggctg ctgcaggccg cacatcgccg tcagttgctg 240
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cgggctgcac tgatgcctca gaaactcgac gcaactggccc aggatcgggg tgctgccaac 480
gccgcaggtt ccctgcagct ggcacgggct tggatgcggc tgttggcacg ggcattgggtg 540
tggctgggga tgaggctgag gccggggcgg ttgagtaggg tagtggcatg gtggcggcgg 600
cagatga 607

<210> 12739

<211> 614

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-115-Q6-N7-F9

<400> 12739

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ttcccaaata tcatgaatca gtagtagggc ggaatggcag cggagacgcc acaggggttg 180
gtgcggtagc tgggcagctg gtactggtag agtccacca tggccggcat gttctgcgcc 240

atcatcatgg ccatggggtt gagaccctgg gctgccagca gctgctgctg ctgctgcac 300
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tgcagctgct gcgcgacgga ctgcacgtcc atcatcctca tctgctgctg gcagcactgt 420
tgccggagcg gctggaacat ggcgctcggc tgcccacacc cggcgtagta gggcgccgcc 480
gccagcgggc tgcactgcgg ctgcctcagg tactccgcgt aggggtacag cccgcccggc 540
cccatcatcg tcgtcaggcc ggcgccagcg ccgtacaagc cctgcagccc cgcgcagggg 600
cagggcatct gcat 614

<210> 12740

<211> 117

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-115-Q6-N7-G1

<400> 12740

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gatgccttcg tgctggactg cgtgccagtg aaacaatcgg ctggtcgcgc gccggga 117

<210> 12741

<211> 559

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-115-Q6-N7-G10

<400> 12741

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taatcttaat tttaaacttg tttccagaca aaatcttagg ggcggatgaa aacaagtaga 120

caactctaag ttcacgtcat aagcaacctc atgtccagac tcagcctaga tatagaagta 180

gcaaacaaac tactcggcag cagcaacctt ctgcacaggc ttatttttct tgacaggcct 240

ttcaagcttc acaccaacat tctctttgta gtcgccatga accttcatga gcttcccaag 300

atcgaacttg ggggccttga gtatcttcac cttgcggatg aagacatttt gaagtgggaa 360

gatgcttgag gtagacttct caatctcctt accaataact tctggaatga acttcgaaac 420

aagttctttc aggtcacatg tagaagcctg ggtgatcata atctcaacca tcttacggcg 480

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cttcgtgagc cgatgcaga 559

<210> 12742
<211> 540
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-115-Q6-N7-G11

<400> 12742

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gacaagacag gattcatcaa agagaactgg ttgtttggca acaattgttg ctgctgtagg 180
aaggcggcga ccaatgggtt agccactacc aatggattaa gtaactgttg tcgctgttgt 240
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tgttgtacct aggcggcagg gttcaccatg gctagttgac tgagcgttgg cagaaactgt 480
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<210> 12743
<211> 606
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-115-Q6-N7-G12

<400> 12743

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aatgagaatg acacacagac aagcgttgct gtcttcagtg tcacctccag agcttaacga 240
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ctagggactc ataacaaccg attataagca aattcgggta atttgggtga aaaacacacg 420
aatggaactt gttcccgctg cagatcagct catgtatgca ttcgatgtag ttccctgagg 480
taaatgacca caccctgaca gaatcttcac tgacagacgc cagatagttg cccgcggcat 540
cccaacatac tgactgaata atctgtacgt ggccctgcaa aggagttcta caaacttgta 600
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<210> 12744

<211> 585

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-115-Q6-N7-G2

<400> 12744

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agaacgctgc tgggtttgtc aaagcaagtt gggtgaatgg cagcaattgt tgcagttgta 180
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cagcaggtag ctggctgaat ggtagttgtt gttgttgcaa ataagaagca gagttcaatg 420
cagctagttg gttgaatgga agaaactgct gttgctgaga gtaggcagca aggtttgcta 480
gcacaagttg ttgtagttgt tgtgccctga tgttttgtgc caataaatgc accaaaggta 540
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<210> 12745

<211> 616

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-115-Q6-N7-G3

<400> 12745

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aacactgctg ggtttgtcaa agcaagttgg tcgaatggca gcaattgttg cagttgtaag 180
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 taagcatgag agttcaatgc tgccagttgg ttgaatggaa gaaattgccg ggggtaggca 360
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 gcagctagtt ggttgaatgg cagaaactgt tgttgctgag agtaggcagc aaggtttgct 480
 agcacgagtt gttgtagttg ttgtgccctg atgttttgtg ccaacaaatg caccaaaggt 540
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 gccctgatgt tttgtg 616

<210> 12746
 <211> 420
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-115-Q6-N7-G4

 <400> 12746

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 taggttggtt gccaggggtt tttctaaaaa aaaaattttt ttttaaggggg gaaaccccc 180
 ggaaaaacct aggggcatgg aattggtttt ttcaagcccc aaattcccc aaggtggtgg 240
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 gactggggga ccaaacccaa aatcccctgg taccgggggt ggggggtccac ccggctgaag 360
 tggtgggaaa aatgttgccc aaacaactgg gacttggggg agccccggaa tttcggaccg 420

<210> 12747
 <211> 485
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-115-Q6-N7-G6

 <400> 12747

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 cgaaggtgac agctgattta caactcgtec acatttgacc gaacagacaa gcagcagcta 240
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<210> 12748
 <211> 642
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-115-Q6-N7-G8

 <400> 12748

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 cgtgcacgcc cacgtcagc ggctcgaca tggcgccctc cttcaggctc acccgtcgg 600
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<210> 12749
 <211> 268
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-115-Q6-N7-G9

<400> 12749

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caaatatcat gaatcagtag tagggcggaa tggcagcgga gacgccacaa gggttggtgc 180

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ttatgggcat ggggttgaga ccctgggc 268

<210> 12750

<211> 532

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-115-Q6-N7-H1

<400> 12750

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aaaatttaca tgcattgcaag gtttcccccc ctctctgact gcacagaaac agtggggagc 180

aaagattaaa tggttttgca cagaaacatg tgagcagcta ccctaacaaa catctctaag 240

atggctaagc ttgtcttgaa gatgacggtt caccagtgga aacagaagga aatgaggaag 300

cccacgctcg agcattatct gctcccttcc tcaagtctgt tgccttattg ctcagcctca 360

gcttgctcca aagcctcctt acatcaagaa cattcaaggc tcgttccagg agctgggttg 420

atccccctac gatccctagg ttcaagtttt ggacacgaac aactaagaaa gctctcagat 480

gagacatgac aacaggatg aagtgtgcta caaccttcac gataataaaa ag 532

<210> 12751

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-115-Q6-N7-H2

<400> 12751

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acactgttgg gtttgtcaaa gcaagttggt tgaatggcag caattgttgc agttgtaaga 180
gggtgccagc gttaggcata gcgtagcagg agaacggcaa caactgttgt tgtgtcaaga 240
aggcagcagg gctcacatca gctagctggc tgaatggtag tagttgttgc tgctgtaaat 300
aagcagcaga gttcaatgct gctagttgga tgaatggaag aaatagctgg gggtaggcag 360
caactagctg gatgaatggc aatt 384

<210> 12752

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-115-Q6-N7-H4

<400> 12752

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taacagcatc catcgatcca cagtccatgc tgggtgatgc atgggtctgc tggagccgag 120
gatgaacaca gactaaciaa ctgacacaga gcgaccttgc aatcaaaaac acagatgggc 180
aacaacaaac gagacgaacg aagataaacc ctctggacta gggtaaacad cacggtagcg 240
aacaggataa cttggccgcg cgggccccac cgctcagttc ctccagttcc cgtagcgagt 300
gccgtagccg ccgccacggt tgccaccgcc gtagccgcc ccaccaccac cgtagccacc 360
gtcgccaccg tagccgtcgc cgtcaccgtc gtaagcgccg tcggcatcac ggggcccgcc 420
caccgcgtag ccgccgcctc a 441

<210> 12753

<211> 596

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-116-Q6-N7-A1

<400> 12753

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ccaccaatga tgggttgttg gtagaatgct gttgggtttg tcaaagcaag ttggttgaat 120

ggcagcaatt gttgcagttg taagaggggtg ccagcgtttag gcgcagcgtg ctggtagaac 180
ggcaacaatt gtggtttgtt caagaaggta gcaggggtca caccagctag ctggctgaat 240
ggtagtagtt gttgctgctg taaataagca ggagagttca aagctgtcag ttggttgaat 300
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gagtaggcag caaggtttgc tagcacaagt tgtttagttt gttgtgccct gatgttttgt 480
gccataaat gcaccaaagg taactgctgt aatagggctg atgattgttg gaggaacaag 540
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<210> 12754
<211> 472
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-116-Q6-N7-A10
<400> 12754

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gctgctgcaa taaggtggta ggattcgtca aagatagttg gttaaatggc agcaattgtt 180
gttgttgtaa gaaggcgaca ttgtttgcc catcctgtgg gtagaatggg agcaactgtt 240
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gttgttgttg caagaaagca gcaatgtttg ccacaacttg tagatggaat ggaagcaact 360
gttgctgcag taagaaggca gcagggctcc tgacaagttg gttgaatggg agtagctgtt 420
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<210> 12755
<211> 398
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-116-Q6-N7-A12
<400> 12755

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gctgttgggt ttgtcaaagc aagttgggtg aatggcagca attgttgcag ttgtaagagg 180
gtgccagcgt taggcgcagc gtgcaggtag aacggcaaca actgttgttg tgtcaagaag 240
gcaacagggc tcacatcagc tagctggctg aatggtggta gctgttgctg ttgtaaataa 300
gcagcagagt tcaatgctgc cagttgggtg aatggaagaa attgctgggg gtaggcagca 360
gctagctgac tgaatggtag ttgttgttgc aaataagc 398

<210> 12756

<211> 551

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-116-Q6-N7-A2

<400> 12756

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gctgttgggt ttgtcaaagc aagttgggtg aatggcagca attgttgcag ttgtaagagg 180
gtgccagcgt taggcgcagc gtgcaggtag aacggcaaca actgttgttg tgtcaagaag 240
gcaacagggc tcacatcagc tagctggctg aatggtggta gctgttgctg ttgtaaataa 300
gcagcagagt tcaatgctgc cagttgggtg aatggaagaa attgctgggg gtaggcagca 360
gctagctgac tgaatggtag ttgttgttgc aaataagcag cagagttcaa tgcagccagt 420
tggttgaatg gaagaaactg ctgttgctga gagtaggcag caaggtttcc tagcacaagt 480
tgtttagatt gttgtgcctt gatgttttgt gccacaaaat gcaccaaagg taactgctgt 540
aatagggctg a 551

<210> 12757

<211> 584

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-116-Q6-N7-A4

<400> 12757

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attcatcttc ttgctgtgct tattattcag acatatgagc tagctacaag ctcatctctc 120
atgcactatg ctcttcgcag ttacttggag ggcacgttc cgccgccgag aatccagggg 180
cattcggcga cgccgctgat ggtggccagg ttgcactcgg cctccgtgac gaggggtggcg 240
gcgaatcccc tctgcacctc ccgcgggcag cccggcaggt ccttttaggcg gccctccagc 300
tgcgcgctccg ggcccggcgg gatcgcgccg tccatgagga tgctcagcgc cgtgcaccgg 360
cagtacgccg ggatgtccgc cagctcccgg cagcatctcc ttttcagctc cggccacggg 420
aggcgcgggc cgatgccgca ggtccggctg gtcacgtacc agcggcagct cgggagcggg 480
ttgtgcggga tggcccaccc cggcacgcag aagggtcccgg cgctggcgct ggcagccgcg 540
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<210> 12758
<211> 573
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-116-Q6-N7-A5
<400> 12758

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aattacaact aataagcaat ctaaaagagg gcaccaccaa tgatgtgttg ttggtaggag 120
gccgctcggc ctgtcaaagc aagttggaca aagggaaca attggttagg ttgtaagagg 180
gttgcggggt tagccgcaaa ctgctggtag aaaggcagca actggtgctg tgtcaagaag 240
gaagcacggc ttgctgcagc tagctggcta aatggtagta gtatttgctg ctgcaaataa 300
gcagcggggc tcagtgcggc caattggcta aatggaagaa gttgttggtg ctgagagtag 360
gcagtagcta gctggctgaa tggtaatatg tgttgctgca aataagcagc agggttcagt 420
gtagacagtt ggttgaatgg aagaaattgt tgttgctgag agtagggaga aaggtttgcc 480
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tgtaccaatg actgcaccaa agatagggct ggc 573

<210> 12759
<211> 525
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-116-Q6-N7-A6

<400> 12759

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agcacaacg acaggggcag tctagcagta tgcgctaata cttagcacia acggaactta 180
gcaatacaac atcgaccccc aaaggggggt aagtttagtg agctcgggtct gacaaaaaca 240
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atcggtcgat cagtcactgg caacaggaga atcgtcggcg gacctggagc gggatccagg 360
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tgggggagac ctcttctcat aaacattgtc agcatcatct ctactggcag gagagtagga 480
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<210> 12760

<211> 587

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-116-Q6-N7-A7

<400> 12760

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gctgctgcaa taagggtgta ggattcgtca aagcaagttg gttaaattggc agcaattggt 180
gttggtgtaa gaaggcgaca ttgtttgcca catcctgtgg gtagaatggt agcaactggt 240
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gttggtgttg caagaaagca gcaatgtttg ccacaacttg tagatggaat ggaagcaact 360
gttgctgcag taagaaggca gcagggctcc tgacaagttg gttgaatggt agtagctgtt 420
gtgcctgcaa gtaagcagca gggttcacc cagctagttg attgaatgga agaaattggt 480
gttgctggag gtaagcagca aggttcgctg caactacttg attgattggt ggaagcaact 540
gttggtgtag ttgttggtct gcgattcttt ggagatatag attcatt 587

<210> 12761

<211> 528
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-116-Q6-N7-A8

 <400> 12761

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 cacgcccaga gccatttccg tcattgagtc atcccaattc ccacctcact gttcaaagct 180
 ccaccttttt ggtctgatga ccatttccgg ggccagttcc gatgcttttc tttgccttgg 240
 ggccaccgtt ttcttcgggg atccccgacga cgcgcggggc cttgatctgc tcgggcgcca 300
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 cggcgtttctc ggggaggggg aaccgggggc agaacctgcc gtaggagcgc tcctcgcggt 420
 gccagtggtc gcccttgcgc ttctaaacgc gccgcggttt gccgttgacg cgcaacaccc 480
 tgttgtcttc gacctcgatc ctgaggtcct cctgcgcgat tccgggca 528

<210> 12762
 <211> 430
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-116-Q6-N7-A9

 <400> 12762

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 agaatgctgc tgggtttgtc aaagcaagtt gggtgaatgg cagcaattgt tgcagttgta 180
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 aataagcagg agagttcaat gctgtcagtt gggtgaatgg aagaaattgc tgggggtagg 360
 cagcagatag ctggctgaat ggtagttgtt gttgttgcaa ataagaagca gagttcaatg 420
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<210> 12763

<211> 586
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-116-Q6-N7-B1

<400> 12763

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ttcaattgca aacaccacta atgtcattgc tgctgcatgg attatatttg tagtatgagt  180
ggtacaagcc gcacattgat ggtagggtatt gtgctgctgt caagattgcc accgcacttt  240
gagtagcttg ttgagatcca cataactcac atgggttggtg ttgttgctcc tcttggatta  300
tggattgaac catgttgtag attgcttggt gaatgtattg tggctcaatc tgcctaagat  360
catgacaaca ttgttgctgc aatacctggc agctacttgg ttgtatcaaa cgtgattgga  420
gaaaaggcat taccaaaggg ctgcactgct gccttaggaa ttcatgacaa ttttttagat  480
ttgagctact gctatagtag ttatagctgc accttgtagt ctgttgctgc tcttggcaat  540
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<210> 12764
 <211> 612
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-116-Q6-N7-B10

<400> 12764

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cggcggcggt atacaaagca aaccacagta atgcgttttc gcagaacttg tcacaacaac  180
atagaaagat ctaaagatag gccaatgata tgaaaggact aaaatattat agtgctcaga  240
caaagaagggt aaaattccat gtcagaccaa ggcgcagggg accggatcaa atgctgtgcc  300
acatgttata cattgccttt ttcgactcca tggtagcatg caatcaggaa ctttctgcc  360
ctcccttttc aaaagggtgt atgtaacaag gcggttcata tgcttcgcct tcaaggagag  420
catgagcaaa cactgttgct ccaggcattt catcttcatg tgcttaccgt agaactctaa  480

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gcaccagaga tttggcattc tgtccacctc cttccagagg agagtcattc tctgcaactc 540
ccatatgcag atgcaggctc ctgcattttt gcacagcaga cccaccagca taacccttcc 600
ctggaactcg gc 612

<210> 12765

<211> 602

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-116-Q6-N7-B11

<400> 12765

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aaaaggggttt tttttttggg ggggggcca aaatttttaa aaaaaaaaat ttttttttgg 240
aaaattaaaa aaaaaaaa agaaaagggg ggcccccaa attttttttt ttaaagaagg 300
gggttttggg ttttaaaaa aaagggggaa aaaggggaaa atttttgtgt taaaaaaaag 360
gggggggggg gaaaaaaa aatgggggaa aaaaagaaa aatttttggg taaaaaaa 420
aaaaaaagag gtttggaaaa aattggggga aaaagggaaa aaaattttgg ggggaaaaaa 480
aaaaaagggg gttaaggggg aaaaattttt aaaaaaaa aatttttttt aaaaaaaa 540
aaaaaaacaa acgggggaaa aagagaaaaa gggggggaaa aaaaaaaa aggggggttaa 600
gg 602

<210> 12766

<211> 586

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-116-Q6-N7-B3

<400> 12766

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cactgtgttt tttttcattt gctatattga atttcagagt aaagaatatg cgactcacia 180

gaacatctaa gctgttacca tagatggaac ataatttaac aggtcatgtc gcctcaaaaa 240
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<210> 12767
 <211> 464
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-116-Q6-N7-B6
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 agggtcacac tctagcaaac cggcaaaact agaagggaac cggtgggcca ccacattacg 180
 agggatctgg ctaaactcct aagagagcat gcccaccacc ttgggcaatg atttgttatt 240
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 ctttaattacc aggcgggggg attccccccc acaataaccg atcgggttctt attccccac 360
 caagtgtccc caaaaagaaa gggattaaag gtagggggag gaatagccat tgctgaaaac 420
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<210> 12768
 <211> 384
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-116-Q6-N7-B8
 <400> 12768

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gcacggggcgc tggcgcggcc ctccccagct aagggcttgt tcggatagct ctcaatccac 180
atgtggattg agtgggattg gatgaatttg aatcacaaac aagtcaaaca ttttcttatt 240
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gccggctcac caaccagccg ccggcggccg ggggaagtgg agcagcatct ccgtccagcg 360
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<210> 12769

<211> 478

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-116-Q6-N7-B9

<400> 12769

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<210> 12770

<211> 574

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-116-Q6-N7-C10

<400> 12770

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ttttacatgg aacgggagcg tctcagatct tgctggcgaa ctggaggcca tccttcttga 180
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cgtccggtga cccgccctcc aggaaggcgc ccaagacctt gccgtcctta atccagtacg 300
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 agtcatactc cggaactggt tcaccggact ctttgccctt gatcgccctt acagcctgct 480
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 aagggaagggt agccacatca ccaatggcat atac 574

<210> 12771
 <211> 590
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-116-Q6-N7-C11

<400> 12771

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 aatggacttc acttcaggct tcttggcgtc ctcttggggc acagtgactg taagcacgcc 360
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<210> 12772
 <211> 612
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-116-Q6-N7-C2

<400> 12772

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<210> 12777

<211> 506

<212> DNA

<213> Zea mays

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<212> DNA

<213> Zea mays

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<210> 12780

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<212> DNA
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<210> 12781
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<210> 12782

<211> 585

<212> DNA

<213> Zea mays

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<210> 12783

<211> 542

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-116-Q6-N7-D6

<400> 12783

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<210> 12786

<211> 583

<212> DNA

<213> Zea mays

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<211> 561

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<210> 12792

<211> 533

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-116-Q6-N7-E8

<400> 12792

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caagggtcga aaggatagga agatttgtca cttgccccct ccaccaagat aggatatcaa 480
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<210> 12795
<211> 602
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-116-Q6-N7-F11

<400> 12795

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gctcttctta tgtacattgg caccaatggg ctcaagcagc aacaatcatc catccttata 180
ttgcattatt gctcaattct cccaatgatg cgaactgccg ctgccgctac cggaggactg 240
cgccgatggc gagaacaggc tgttgagcca ctgcaaggat ggcggaacc ggctgccgtt 300
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gttgtcattg cttcaccat ccgcacgac actgacaaaa ccaccgtcgc cgctgctgca 420
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ctcgagccac ggaacgatgc aattggagtg gaacctgtgc ctgcagggca tctcccgagc 540
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gc 602

<210> 12796
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-116-Q6-N7-F2

<400> 12796

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cacgcgcaga gccatttccg gcattgagtc atcccaattc ccacctcact gttcaaagct 180
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gctttctgaa ttgcacgggg aggaccccc ttctgaggct ggcgggcgacg gaatcaaggt 360
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gccaggggtc gcccttgggc ttctaaacgc gcccc

455

<210> 12797

<211> 509

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-116-Q6-N7-F4

<400> 12797

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cgggggggaa aacaaatttt ttaaataaaa acccccacaa atgaattgcc tgccgaaaaa 180
aaaattcgga aaaaaaaagg gcccaaacc ccaaattaag ggggggtttt ccccctttca 240
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gaagcccccc cccgaatta ggaaaaaac ctttttaaaa atccctggga aaaaaaatgg 360
ggccaaaacc ccccaaaaaa aaaaaaaaca attttgtaaa aaaccccgac aactattggg 420
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aaaaaaaaaa tttctaaaaa taaaccccc 509

<210> 12798

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-116-Q6-N7-F5

<400> 12798

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ccaggataac caaacaaaaa aaacaaataa accatttgca agctcaataa taaaaaaca 180
agggcatttc aagagcctgg gagggcaggg tttcccctcc aaaaataccc gggaaaaagg 240
cgaacccgca gaaagaatcc aggggggacc cggaacaacg ggacaagggg ggcagggaaa 300
accctcagtc ctttccgggg ggggcgggga aaggccccta gggggcccc gggccccccg 360
aaagggcccc gagggaaccc cccaaccacg agggggggga cggcgggaaa ccccc 415

<210> 12799
 <211> 567
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-116-Q6-N7-F6

<400> 12799

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 ccggcagtgt tggcagtgtc gcgcttattt tgctagctag atggacataa ataaaaatct 180
 actcactact agctccgagg ccgtatttat ttgaatagcc tcagtctatt tattaccatg 240
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 gcgttcgcgg taactttgct cagagcgggc gctgccttgg acccagactg gcgtcccagg 360
 tgcttcgaga tgaactcgcc ggccggccatc accttgccca ggtcgacgcc cgtcttgacg 420
 cccagcccgg tgagcatgta cactacgtcc tccgtcgcca cattccccga cgcacccttc 480
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 agagagatga gaatgttcga gagggac 567

<210> 12800
 <211> 556
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-116-Q6-N7-F7

<400> 12800

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 tagaacgctg ttgggtttgt caaagcaagt tggttgaatg gcagcaattg ttgcagttgt 180
 aagaggggtgc cagcgttagg cgcagcgtgc aggtagaacg gcaacaactg ttgttgtgtc 240
 aagaaggcaa cagggctcac atcagctagc tggctgaatg gtggtagctg ttgctgttgt 300
 aaataagcag cagagttcaa tgctgccagt tggttgaatg gaagaaattg ctgggggtag 360
 gcagcagcta gctgactgaa tggtagttgt tgttgcaa at aagcagcaga gttcaatgca 420

gccagttggt tgaatggaag aaactgctgt tgctgagagt aggcagcaag gtttcctagc 480
 acaagttggt gtagttgttg tgccttgatg ttttgtgcc acaaatgcac caaaggtaac 540
 tgctgtaata gggctg 556

<210> 12801

<211> 608

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-116-Q6-N7-F9

<400> 12801

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 acaaaaggcc acaacatttc cctcctacct cggctcggtag ctccagtctg acagaaaata 180
 aacagctcac gttgcagctc catgtagca ccaagataac aggaaacctt cgagcttgaa 240
 cagggaaacga aaaagcacag gttgctggct gtaagaaaca gtgggtgcgac tcagaaaccc 300
 cccttgctag cggttgatgg gggtagcat ccgctcgacg attctgttga tagcggcccg 360
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 atccaccaac agaaccttct ttgagtcac catctgtcta atgtattgca caatgttttt 540
 cgtcttgtgg ctaggaactt ccaagtcctc aaagatcaag agcttcccct cagcagttcg 600
 agcagaca 608

<210> 12802

<211> 548

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-116-Q6-N7-G1

<400> 12802

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 atggtactca ccagaaattt attctgctca gagcaagcgc attgctggca aatgacacaa 180

gaaaccagtc cctaccacc gcggcaaat gtgaaatgac gttagccagg aacagccatc 240
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 ctagtgcctt gaagaactcc tcaggaagag caacaggctc ggtgctgagg aacatgctta 360
 ggaattgggg gtgtcgtctt caatcaacct cacattcgta gtcatcggga acaccccatg 420
 gatcccatc aatcatttta gcgatgagct tgagctcgtc ctggcctcc tcgatgagct 480
 cctcgacctg ccgcacccg attcggctct cgatgcgctt ccagtcctcc tcctcctggc 540
 agatctgg 548

<210> 12803
 <211> 600
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-116-Q6-N7-G10

<400> 12803

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 aactataact cataagcaat ctaaaagagg gcaccaccaa tgatgggttg ttggtagaac 120
 actgttgagt ttgtcaaagc aagttggttg aatggcagca attgttgagc ttgtaagagg 180
 gtgccagcgt taggcatagc gtgcaggtag aacggcaaca actgttggtg tgtcaagaag 240
 gcagcagggc tcacatcagc tagctggctg aatggtagta gttgttgctg ctgtaaataa 300
 gcagcagagt tcaatgctgc tagttggttg aatggaagaa attgctgggg gtaggcagca 360
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 tggttgaatg gaagaaactg atgttgctga gagtatgcag caaggtttgc tagcacaagt 480
 tgttgtagtt gttgtgcctt gatgttttgc gccaccaaag ggaccaaagg taactgctgt 540
 aatagggtg acggttggtg gaggaacaag ggtgataatg gtaagatgcc tgttgcgatt 600

<210> 12804
 <211> 576
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-116-Q6-N7-G11

<400> 12804

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 cacatagacc acgcagtaga aaaaaaaaaa agaaaggaaa accttgccga acttaacatc 180
 attgtccaag aaaacacggc ctatttcgtc atatcatcat tggtccgagt tattggattt 240
 caaaggcgga cttcactgac tggcgggac ggagggggc gtcgctgcac acgccgtcct 300
 agtagcctcc ctggatgtag tcattgagcc ggttcagctc ctccctgtgc tcggccacca 360
 ccgcgcgcac gacgtcgccg atggagacca tccccagcat ccccggtgccg tcgatcaccg 420
 ggatgtgtct gacgcggttt tctgctcaga cgattggcac agcggatcat aaccaatttt 480
 ccagtgtctt cacgattcta gtagtatttt ttttctgaca gaagaacacg ggcaaccagg 540
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<210> 12805

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-116-Q6-N7-G12

<400> 12805

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 gtaggaggct gctggggttg tcaaagcaag ttggacaaag ggcaacaatt gttgtagttg 180
 taaaagggtt gcgggggttag ccccaaactg cttgtaaaaa ggcaacaact gttgctgtgt 240
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 caaataaaca gcgggggttca atgcggccaa ttggttaaata ggaaaaagt gttgttgctg 360
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<210> 12806

<211> 466

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-116-Q6-N7-G2

<400> 12806

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gccatagttt cctcagtagt aaacaccgcc ggcagctgct ttgcaggggc agggacctgg 240

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cgccgggagc tccccctgcg gttgttgctg caggaaggac tgcaggacca caccgtatgt 360

cgctgggtac cggggcagcg gctccacctg cctgatctgg gggcagcact gttgctgcag 420

cgctggcac tggggcgagc cgtagggcgt ccccgccggg ctgcac 466

<210> 12807

<211> 117

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-116-Q6-N7-G3

<400> 12807

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ctccatggct tcgctcaaag cagcacagta tgggtattaa actgatcaat ttacagc 117

<210> 12808

<211> 591

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-116-Q6-N7-G4

<400> 12808

gcagagcaaa ttcatatcat atattcatat gcataaacct ccgttaatat ttgtcgcca 60

ctaattttta aactaaaacg tgacaaataa aaaagaacgg atagagtata tagaggacaa 120

taagtgaac agttgattat aaaaagatat agaagaacaa agctagcagt cttgttttagg 180

tgcagcaact tgctgacttt ctcatggaaa ggcgctacgg acgcacaagc acgaagccga 240

gtttctggca cagcatcttg ctgacccgag aggtcaaaaa cagccacggg agtattccaa 300

ccacaacatt gccggtggca gtatcaacac ctctccagga aaacattttt ccgaagggct 360

gtagaagatg ttgtggaact gcagttacag gagtactcca aaagcacaga acgagcacag 420
 cataaattat gaccttagta accaacaaaa attttgtgta tttgtcgtat aaggattgct 480
 tccctttaag gtcattgtcc tgcatttttg ccagttcctt ctcttggca gcagccaggc 540
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<210> 12809

<211> 596

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-116-Q6-N7-G6

<400> 12809

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 aaggcgacat tgtttgccac atcctgtggg tagaatggta gcaactgttg ctgttgcaag 240
 aaggcgtaa tgtttccac aacctgtggg taaaattggca gcaattgttg ttgttggtgc 300
 aagaaagcag caatgtttgc cacaacttgt agatggaatg gaagcaactg ttgctgcagt 360
 aagaaggcag cagggtcctt gacaagtgtg ttgaatggta gtagctgttg tgcctgcaag 420
 taagcagcag ggttcacccc agctagtgtg ttgaatggaa gaaattgttg ttgctggagg 480
 taagcagcaa ggttcgctgc aactacttga ttgattgttg gaagcaactg ttgttgtagt 540
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<210> 12810

<211> 604

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-116-Q6-N7-G7

<400> 12810

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 ggtagaacac tgctgggttt gtcaaagcaa gttgggtgaa tggcagcaat tgttgcagtt 180

gtaagagggt gccagcgta ggcgcaacgt gctggtagaa cggcaacaac tgtggttggt 240
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cagc 604

<210> 12811

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-116-Q6-N7-G8

<400> 12811

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tttgggtggg gaaatttttt ttgttggcgg ggtgggtggg cccccctttt tattttggga 360
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cgggggtgt 429

<210> 12812

<211> 577

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-116-Q6-N7-H1

<400> 12812

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 gcagcagggg ttcagtgtag acagttgggt gaatggaaga aattgttgtt gctgagagta 480
 *gggaggaaag gtttgccaga gctaccttgg ttgatcccag aggtagcacg agttnctgc 540
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<210> 12813

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-116-Q6-N7-H11

<400> 12813

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 agctgcatgt cgcacgttca cttaataataa ctgttccact agggagtaaa gcatacctga 360
 tcaactgggac aattccacct ttgatgaagt acccgtctgt ctcccttgca gcttcttgaa 420
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<210> 12814

<211> 587

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-116-Q6-N7-H2

<400> 12814

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atgcagctag ttggttgaat ggaagaaact gctgttgctg agagtaggca gcaaggtttg 480
ctagcacaag ttgttgtagt tgttggtgcc tgatgttttg tgccaataaa tgcaccaaag 540
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<210> 12815

<211> 608

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-116-Q6-N7-H3

<400> 12815

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ttgttggtag gaggccgtc ggtctgtcaa agcaagttgg acaaaggga acaattgttg 180
tagttgtaag aggttgctg ggttagccgc aaactgctgg tagaaaggca gcaactgttg 240
ctgtgtcaag aaggaagcac ggtttgctgc agctagctgg cttaatggta gtagtatttg 300
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caagggtg 608

<210> 12816
<211> 597
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-116-Q6-N7-H4

<400> 12816

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agatttccca aatatcatga atcagtagta gggcggaatg gcagcggaga cgccacaggg 180
gttggtgcgg tagctgggca gctgggtactg gtagagtcca cccatggccg gcatgttctg 240
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cgccgccagc gggctgcact gcggctgcct caggtactcc gcgtaggggt acagcccgcc 540
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<210> 12817
<211> 541
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-116-Q6-N7-H5

<400> 12817

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atgctgctgg gtttgctaaa gcaagttggt tgaatggcag caattgttgc agttgtaaga 180
gggtgccagc gttaggcgca gcgtgctggt agaacggcaa caactgtggt tgtgtcaaga 240
aggtagcagg gctcacacca gctagctggc tgaatggtag tagttgttgc tgctgtaaata 300
aagaaggaga gttcaatgct gncagttggt tgaatgaaaa aaatggctgg gggtaggcag 360
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ctagttttggg tgaagggaaa aaactgctgt tgctgaaagt aggcagcagg gttgggttagc 480
acaagttgtt gaagttgtgg agccctgatt ttttggccaa taaatgcacc aaaggtaact 540
g 541

<210> 12818

<211> 571

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-116-Q6-N7-H6

<400> 12818

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agaacactct tgtgtttgtc aaaggaaggt cgttaaaatg gaaccacttg ctgcagggtc 180
aaaaggcggc cagcgttagg cataccgggc aggtaaaacg ccaccactg ttgttgccgc 240
aagaaggcag cagggctgac atcagctagc tggctgaatg gtagaagctg ttgctgctgc 300
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gccagcaact agctggctca atggtaattg ttgttccaaa taagcaccac agttcaatgc 420
agccagttgg ttgaatggaa gaaactgatg ttgctgaaag tatgcagcaa ggtttgctag 480
cacaagttgc tgtagttggg gggccctgat gttcttgccc accaaatgga ccaaaggtaa 540
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<210> 12819

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-116-Q6-N7-H7

<400> 12819

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gtagctagtc agcggctcca ttacattatt actacagtac atagtttctc cagtagtaga 180
caccgccggc agctgcgttg caagggcagg gacctggctg ctgcagctgc aggccgcaca 240

tgcgcgtcag ctgctgcgt acctgggccg ccatcagcgc cgcgagctcg ccctgcggct 300
gctgctgcag gaaggactgc 320

<210> 12820

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-117-Q6-N7-A5

<400> 12820

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ggtagaacgt tggtgggttt gtcaaagcaa gttgggtgaa tggcagcaat tggtgcagtt 180
gtaagagggt gccagcgta ggcgcagcgt gcaggtagaa cggcaacaac tggtgttggtg 240
tcaagaaggc aacagggtc acatcagcta gctggctgaa tgggtggtagc tggtgctggt 300
gtaaataagc agcagagttc aatgctgcca gttgggtgaa tggaagaaat tgctgggggt 360
tggcagcagc tagctgactg aatg 384

<210> 12821

<211> 594

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-117-Q6-N7-A9

<400> 12821

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taaaagtctc cagcgcagag tgcaccagga tacaagctcc gttcaacggt tggccttggc 180
aacacgctca atctcgtcct tcttcttgat ggcgtaactg ttggatgagc ccttggcagc 240
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cctggcacca gtggtgagga ggtagatggc ctggttcacc ctctcaggg gtgagatata 360
cacggcctgc ctctcacia caccagcgga accaatacgg gtggcatcct cacgggggtcc 420
actgttgatg atcgcgtcga cgacgacctg gatgggggtg gcacgggtga gcagggtgaat 480

gatctccagg gtatgcttga tgatgcgac agccatgacc ttcttgccgt tgttgcgccc 540
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<210> 12822
<211> 567
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-117-Q6-N7-B1

<400> 12822

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ataagatagg ctaaagcaaa acgtctggat tcgcattcca actgtagatt ggacttaagc 180
aacggcctcg aggaaagcct tcccaggagc acgtttctca agtcttccat ggttaccgag 240
cagctttgcg ttgacacat caggaacaat tctaccctca ctcttgtagt tcaggtagtc 300
ggcagggctg aacttggtga agccccactt tctgctctca ataacttttt ggcggccagg 360
gaacttgaac ttggcgctc gcagagcttc actggcatgt gcagcattgt tgccttgca 420
tcgaacagaa aggagtacct gaccaatgtc caccctagca caggtgcctt gaggcttgcc 480
aaaggcacc ctcattccag tctggagcct atcagcccca gcacacgaaa gcattctgtt 540
gatacgaagg acatggaagg ggtgaac 567

<210> 12823
<211> 555
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-117-Q6-N7-B10

<400> 12823

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gctgctgggt ttgtcaaagc aagttggttg aatggcagca attgttgagc ttgtaagagg 180
gtgccagcgt taggcgcagc gtgctggtag aacggcaaca actgtggttg tatcaagaag 240
gtagcagggc tcacaccagc tagctggctg aatggtagta gttgttgctg ctgtaaataa 300

gcaggagagt tcaatgctgc cagttggttg aatggaagaa attgctgggg gtaggcagca 360
 ggtagctggc tgaatggtag ttgttggtgt tgcaaataag aagcagagtt caatgcagct 420
 agttggttga atggaagaaa ctgctgttgc tgagagtagg cagcaagggt tgctagcaca 480
 agttgttgta gttgttgctgc cctgatgttt tgtgccata aatgcaccaa aggtaactga 540
 tgtaataggg ctgat 555

<210> 12824

<211> 607

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-117-Q6-N7-B11

<400> 12824

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 gtaaataagc agcagagttc aatgctgcca gttgggtgaa tggaagaaat tgctgggggt 360
 aggcagcagc tagctgactg aatggtagtt gttgttgcaa ataagcagca gagttcaatg 420
 cagccagttg gttgaatgga agaaactgct gttgctgaga gtaggcagca aggtttccta 480
 gcacaagttg ttgtagttgt tgtgccttga tgttttgtgc caacaaatgc accaaaggta 540
 actgctgtaa tagggctgac ggttggttga ggaacaaggg tgataaaggt aagatgcctg 600
 ctgcgat 607

<210> 12825

<211> 519

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-117-Q6-N7-B12

<400> 12825

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 gtttgtcaaa gcaagttgga caaagggcag caactgttgc agttgtaaga gggttgcggg 180
 gttagccaca aactgctggt agaacggaag caattgttgt tgtttcaaaa aggaagtggg 240
 gcttggttga gctagctggc caaatggtag tagtatttgc tgctggaaat aagcagaggg 300
 gttcagtgcg gccaatgggt taaatggaag aaattgttgc tgctgagagt aggcagtagc 360
 tagctggctg aatggtagta gttgttggtt ttgtaaataa gcagcagggt tcagtgtaga 420
 cagttgggtg aatggaagaa attgttggtt ctgagagtag ggagaaaggt ttgccagagc 480
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<210> 12826

<211> 613

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-117-Q6-N7-B2

<400> 12826

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 tgcctcgaca agacaggatt catcaaagag aaccggttgt atggcagcaa ttgttgctgc 180
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 aattcttgtt gcaggtatgt aggtgcattg gccacagcga gcgggctaga tgaaagcagt 420
 tgttgctgtt gtaggtaggc ggcagggttc accatggcta gttgactaag cgctggcaga 480
 aactgttgca gttgttggtt ttgctggttt gaaactacgt ttgctagagc aagtgggttg 540
 gatgcaacca gctgctgttg caagtaggca acaggggtca ccatggctag gttgggttaat 600
 gctggtagga act 613

<210> 12827

<211> 571

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-117-Q6-N7-B3

<400> 12827

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gctgcctcga caagacagga ttcacaaag agaactgggtt gtatggcagc aattgttgct 180
gctgtaggaa ggcggcgacc aatgggttag ccactaccaa tggattaagt aactgttgctc 240
gctgttgtag gtacgcagca gagttcgaca gagtcagttg gttgaatgga agcagctggt 300
gcaagtaggc aacagggttt gccacagcta gttgagtcag agctgggtaca atctgttgca 360
acaattgttg ttgcaggtat gtaggtgcat tgcccacagc gagcgggcta gatgaaagca 420
gttggtgttg ttgtacgtag gcggcaggggt tcaccatggc tagttgactg agcgttgga 480
gaaactgttg tagctgttgt tgttgctggt ttgcaactac gttcgccaga gcaagtgggt 540
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<210> 12828

<211> 473

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-117-Q6-N7-B4

<400> 12828

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aaattcggaa tgaaaaaaat agatggctcc caaaaaaaa aaaaaataac gtgacagggg 180
cacaaaatat aaaagggggg agcataaaga ggaaagcctg agaaaaataa tgagttagct 240
aacaacacc aattgtgaag agaaaaaaa aaggtggcca gtcggaaaaa aagaagggcc 300
accgcggggg aggagggggg ggtttttttg gggagaggag ggggtgtttt tttgcgcaaa 360
gaagggggca caatgagtga ttaaatccgc tcggtcggtc agaaaggggg aaaaaaaca 420
gaccacttta tgggtggcaat acgggaaaaa acagaattag gggataaaac agg 473

<210> 12829

<211> 599

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-117-Q6-N7-B6

<400> 12829

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gtgggttgga atgctgaaag taatccggca cagatcaact ttcacagca ggagagcctg 240
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ccttgcttga tgtttggtgt gacttggaac cttgtgctga aacttggttt ttgtttctt 480
caatctttaa ggtactcaag gatgttgta ggtcagcaat gtcagtgaat ctttcagctg 540
cttcagggtt ccaatcagcc tgatacagcc tttcaaact cttcttaaac tgcagagat 599

<210> 12830
<211> 560
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-117-Q6-N7-B9

<400> 12830

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gccacgacaa ggcagggttc atcaaagaga actggttgta tggcagcaat tggtgctgct 180
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tagatgaaag aagttgttgc tggtgtaggt aggcgatagg gttcaccatg gctagttgac 480
tgagcgtggt tagaaactgt tgcaactggt gttgttggtg gtatgcagct acgtttgcca 540

aagcaagtgg gttggatgca 560

<210> 12831

<211> 563

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-117-Q6-N7-C11

<400> 12831

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gacaggcctc cttgcttgag ctttcaaaac tgtggtcacc tgaaagatgt ggacctaaagc 180

ctttttcttc gatgacttct tgtgggggtt cttctggggc ttaagcttat caaatttcga 240

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gtgtttgcca gggtgctttg gaggtttctc gccaggcaac ttctcatcaa acttcccacc 480

acttgctgtt gctgatgaag ccatgccgac aacactctca agatcctctt ttctagattt 540

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<210> 12832

<211> 585

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-117-Q6-N7-D10

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aacaccaagc gcatcgacga gcctgctggt cgcgcgtcca tagaacccca cgatgctgct 180

gccgaccggc gcggtgatgc agaaccgcgt cccgttctcg acgccccatg gcccccatgt 240

cctgctgctg gtgagaattc tgaacgaggt cagcgtggtg gcgccttcaa atgtgccgta 300

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gccaaagtcca ccccatcgcc cagcggcgcg cctctggcca cctctgtcag tatacgtgaa 420
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ctccgtcgtc gtgatgtcct gcgccgaccc tcctttgccca ccccataacc caatcttggt 540
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<210> 12833

<211> 620

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-117-Q6-N7-D11

<400> 12833

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tgtaataggg ctgatgattg ttggaggaaac aagggtgata aaggtaagat gccagctgcg 600
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<210> 12834

<211> 599

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-117-Q6-N7-D12

<400> 12834

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 agttgttgta gttgttgctg cctgatgttt tgtgccata aatgcaccaa aggtaactgt 540
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<210> 12835

<211> 554

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-117-Q6-N7-D2

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 ttttggtgct cccacgacaa aatcacctga gtagctctcg agcaaacacg accatacatt 180
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 atccggcgcg cttggacatc ctgacagctt cgatactctc ggtcacagac ccgatttggt 540
 tcaccttcaa gagg 554

<210> 12836

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-117-Q6-N7-D3

<400> 12836

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caaaaaaccg gaaaatgggc ccccgatttt gttgaaaaaa aagccgccgg gagattaaaa 180
tggcataagt ttttgccaaa tgatctcggg ggccattggg tttttggttg attaaaaaaa 240
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tactggggct ttttaatttc cttaaaaata cccaagaaa ggaatttg ggccaagttt 360
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<210> 12837
 <211> 605
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-117-Q6-N7-D4

<400> 12837

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gttggttgaa tggaagaaac tgctgttgct gagagtaggc agcaaggttt cctagcacia 480
gttggtttag ttgttgtgcc ttgatgtttt gtgccaacia atgcacaaa ggtaactgct 540
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tcgga 605

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<210> 12838
 <211> 606

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-117-Q6-N7-D5
 <400> 12838

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 gttcttatgc ttctttgtag cctatacata gttcctccat atgcttttat gattcccat 180
 gaaaagtaag aacacgatgc cgaataagcg cgcacacaca caatggatag aaacttgact 240
 gagttcagct acatgcatct ccatggatac cctcaattcc attttggtgt taataagggc 300
 catcaggcgg aggtaatgaa tggtaattg atcataaaac aacacactat ataaacatga 360
 aggatccaag acgtgcagtc tatgtacgtt gcttgacctta geaaaccagc ggacaaacc 420
 tattcttaca gctggcagaa ctgaatttga agcagaagaa cttattatct ggaggcaatc 480
 atttttatga ccagtacgcc aatgcaatgc atgatgttgc tcataacagt accttgcttt 540
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<210> 12839
 <211> 480
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-117-Q6-N7-D6
 <400> 12839

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 caagcttttag aacagggctg agcatgcgca aagcagtata tagacgatac gtcctttatt 120
 cttacatagt actgtactat acacattcgt cagacctgtg ccatacagcc atactaaaca 180
 aagtcttctt gattctcata cgccttcaca taaggcccaa ggtgtgtgtc gtgccctggc 240
 gagtgccaga cccagggcca tgtagctggc aagtctggct cggcacaacc tggagaacac 300
 ctggttgctc cttgagatcc ttgacctgct ggggggtgag cttcgcgag aagccgctgg 360
 cggcgcttctt gtagtggtag agcactgcgt ccctggcctt ctgttcgctg cccaggacgg 420
 ggggtgagggt gcggatgtgg aactcctcaa ggtagggcgt ctcggggcgg tcaacgtaca 480

<210> 12840

<211> 576

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-117-Q6-N7-D7

<400> 12840

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caaaaaactt cattattgaa ctataactca taagcaatct aaaagagggc accgccaatg 120
atgggttggt ggtagaacgt tggtgggttt gtcaaagcaa gttgggtgaa tggcagcaat 180
tgttgcagtt gtaagagggg gccagcggtta ggcgcagcgt gcaggtagaa cggcaacaac 240
tgttgttggt tcaagaaggc aacagggctc acatcagcta gctggctgaa tgggtgtagc 300
tgttgctggt gtaaataagc agcagagttc aatgctgcca gttgggtgaa tggaagaaat 360
tgctgggggt aggcagcagc tagctgactg aatggtagtt gttgttgcaa ataagcagca 420
gagttcaatg cagccagttg gttgaatgga agaaactgct gttgctgaga gtaggcagca 480
aggtttccta gcacaagttg ttgtagttgt tgtgccttga tgttttgtgc aacaaatgca 540
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<210> 12841

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-117-Q6-N7-D8

<400> 12841

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accaagggtg gttcaactgt ccttgattca tatacacaac atttattttc tacagtagtt 120
tgttttgtta cctttgcgag aacagctttt atgtgcgcaa attcccaaatt attaaatgcc 180
cgccccggtc aagccaagtc caagctttat cctcttgctg gggcctttat ttttttgagc 240
agagcctttg cagcgagaac ctttgccaca ttctgggttg ggcctgttcc agtcccggag 300
tacacagttc gcgcagccgt tacctgtgca accacccttg tgactccagc tacactgtca 360
cgagttggag agtaccatgg cttagggtag tgtttggtgct cgcataattc cttcagttcc 420

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450

<210> 12842

<211> 625

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-117-Q6-N7-E10

<400> 12842

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ttgttttctc gacaagacag ggtttatcaa agagaactgg ttgtatggca gcaattgttg 180
ctgctgtagg aaggcagcga ccaatgggtt agccactgct agtggattaa gtaactgttg 240
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caacaattgt tgttgcagggt atgtagggtgc attggccaca gcgagcgggc tagatgaaag 420
cagttgttgc tgttgtagggt aggcggcagg gttcaccatg gctagttgac tgagcgctgg 480
cagaaactgt tgcagctggt gttgtggctg gtttgcaact acgtttgcca gagcaagtgg 540
gtttgatgca agcaactgct gttgcaagta ggccgcaggg ttcaccatgg ctaggtggct 600
cagtgtggt aggaatagtt gttgc 625

<210> 12843

<211> 531

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-117-Q6-N7-E5

<400> 12843

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ccatggtgat gggtgacact ccgttactca tcgccgctaa acgagtgaac tagctatagc 120
cctataggta gctagtcagc ggctccatta cattattact acagtacata gtttcctcag 180
tagtagacac cgccggcagc tgcgttgcaa gggcaggac ctggctgctg cagctgcaga 240
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tgcggctgct gctgcaggaa ggactgcagg accacaccgt atgttgctg gtaccgggtgc 360
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 gagccgtagg gcgattacat cgggctgcac tgggtgcctta ggaactagac tcaactggccc 480
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<210> 12844
 <211> 467
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-117-Q6-N7-E6

 <400> 12844

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 gnnccggcta tgatnncacc agggnnccctg acaaacatat aattaaattg ttggcatgca 180
 aatttccgat ttcttccctt tatattgggtg ttgcttacac ttactttctc cactgtctga 240
 aatataagca cacttgctta cacttgcttc tccattgtca agacgcgtgc atttcaccaa 300
 ccaaatccat cctggacgag ccaaagggtc gaaagaagtc gtggtcagca gcagccaggc 360
 cctggaacac gccctcctcc tccaagaagc tcaggaacct tcccgggttg agatccatcc 420
 acaggtcgcc gcggccgagg tcgtaatcgc cgaagccagc tccttgc 467

<210> 12845
 <211> 528
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-117-Q6-N7-E8

 <400> 12845

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 tggaacttgt ggtagagcaa gcgcggaaag aaaaatacta ggcatccaga tcaatctatg 180
 taaccatacg gtaactggca gcgcttttga cttattctgc gctagtctga ttgaaacctt 240

cccggaatgt agcttcgatt cagcctactc gtgcaggaag cctttctcct caaggtaagt 300
aaccacttgc cccgccatgt cagaaggcga agggcataca ccatctatct ccttgatctc 360
aatctcaciaa ttcagtgggtg cttcataagg gtcactctatt cctgtaaaac cctttatctt 420
cccagcacga gcaagcttat agaggccctt tgggtccctt gcttcacata attccaagga 480
catattcaag aaaacttcaa taaagctacc atccgataac aatgcacg 528

<210> 12846

<211> 574

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-117-Q6-N7-E9

<400> 12846

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aagccacaaa catcagacaa aaaactttat tattgaacta taactcataa gaaatctaaa 180
agagggcacc accaatgatg ggttggttgg agaacgctgc tgggtttgtc aaagcaagtt 240
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ggttgaatgg aagaaattgc tgggggtagg cagcaggtag ctggctgaat ggtagttgtt 480
gttggttcaa ataagaagca gagttcaatg cagctagttg gttgaatgga agaaactgct 540
gttgctgaga gtaggcagca aggtttgcta gcac 574

<210> 12847

<211> 600

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-117-Q6-N7-F1

<400> 12847

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atcgagtaca tctcatatgt aatctaaaag atggcacctc caacgatggg ttgctgcctc 120

gacaagacag gattcatcaa agagaactgg ttgtatggca gcaattgttg ctgctgtagg 180
aaggcggcga ccaatgggtt agccactacc aatggattaa gtaactgttg tgcgtgttgt 240
aggtacgcag cagagttcga cagagtcagt tggttgaatg gaagcagctg ttgcaagtag 300
gcaacagggt ttgccacagc tagttgagtc agagctggta caatctgttg caacaattgt 360
tgttgcaggt atgtaggtgc attgcccaca gcgagcgggc tagatgaaag cagttgttgt 420
tgttgtacgt aggcggcagg gttcaccatg gctagttgac tgagcgttgg cagaaactgt 480
tgtagctgtt gttgttgcgt gtttgcaact acgttcgcca gagcaagtgg gttggatgca 540
agcagctgct cttgcagtag gcgggagggt tcaccatggc taggtggctc aatgctggta 600

<210> 12848

<211> 594

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-117-Q6-N7-F11

<400> 12848

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caaaacagcg tcatcacctt ctgccagtgc cagcccaagc acagcgtgcc aaatggcaac 180
tagcaaatca gaaaccgtca ccgatgcctt tttgtttgtc aggttaaggca caatgtactt 240
cttcatgtca cctttggaga taccaagatg acctcccgcc acagacacaa acttcacccg 300
ccctgcttca tccagtgtct tcaaaccaat ccagtcttcc tcatacagtt tcgtcttctg 360
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tggtatcagg actgcatcat cctgaaacat aatcagaacc aaattctcta agctactgaa 480
tctttccttg taggtggcat ttcttttatc tggaatttca ttggtaagtt ttggaagaaa 540
cctacaactc ttcagataat ctgccatatc agttgggatt ttgaggtagc cact 594

<210> 12849

<211> 92

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-117-Q6-N7-F12

<400> 12849

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ttttttaaaa aaaaaaaccc catttttttt tt 92

<210> 12850

<211> 607

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-117-Q6-N7-F2

<400> 12850

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cattatcgag tacatctcat atgtaatcta aaagatggca cctccaacga tgggttgctg 120
ccacaacaag gcaggggttca tcaaagagaa ctgggtgtat ggcagcaatt gttgctgctg 180
taggaaggca acgaccaatg ggtagccac cgctagtgga ttaagtaact gttgtcgctg 240
ttgtaggtac gcagcagagt tcgacacagt cagttgggtg aatggaagca gctgttgcaa 300
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ctgttggtgc aggtatgtag gtgcattaac cacagcgaga gggctagatg aaatcagttg 420
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ctgttgcaat tgttggtgtt gttgggtatgc aactatgttt gccagagcaa gtgggttgga 540
tgcaagcaac tgctgttgca agtaggcgac agggttcacc acagctagtt ggctcagtcg 600
tggtaga 607

<210> 12851

<211> 268

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-117-Q6-N7-F3

<400> 12851

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ctaaaagagg gcaccgccaa tgatgtgttg ttggtagaag gctgctgggt ttgtcaaagc 120
aagttggaca aagggcagca actgttgagc ttgtaagagg gttgcggggt tagccacaaa 180

ctgctggtag aacggaagca cttgttggtg tgtcaagaag gaagcggggc ttgttgtagc 240
tagctggcca aatactacta ccatttgg 268

<210> 12852

<211> 608

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-117-Q6-N7-F7

<400> 12852

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accagtagca gagcagtagt tcctaggcaa acagcagagg gaggagacaa acaagagcag 180
cagcacttca gttacggaag gaagaagggtg aaacaagaga tggatcacgc atgcaccggt 240
atggacaggt tgttgcgcat gcagcccgtc ctgaagatct tggcgaagga gcgccagagc 300
ctgagctcct ggtgcgccgt caccggcatc cctccttca cgcagtggtc gtacttctcc 360
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ttgatcaggt tgttgagcac cggcggggcac gagctcgaca gcggcggggc caggttcttc 480
tccgacgcgg cgtacgcggc ctgcaccggc gtcatgccct ggaacgggag gaggcagggtg 540
gtgagctccc agagcacgat gccgaagctg tacacgtcca cttgctcgt gtagggcttc 600
tccttgggt 608

<210> 12853

<211> 519

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-117-Q6-N7-F8

<400> 12853

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gaattacaac taataagcaa tctaaaagag ggcaccgcca atgatgtgtt gttttttttt 120
tggtgatggg tttgtcaaag caagttggac aaagggcatc aactgttgca gctgtaagaa 180
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ggaagcgggg cttgtttag ctagctggcc aaatggtagt agtctccgct gctggaaata 300
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 ggcagcagct agctggctga atggtagtag ttgttgttgc tgcaaataag cagcaaggct 420
 caatatagac agctggttga atggaagaaa tcgttgctgc tgagagtagg gggaaaggct 480
 tgccagagct acttgggtta tcaactggtag gaccagttg 519

<210> 12854

<211> 574

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-117-Q6-N7-F9

<400> 12854

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 aatgatgggt tggtgtaga aactgttga ttttgtcaaa gcaagttggt tgaatggcag 120
 caattgttgc agttgtaaga gggtgccagc gttaggcata gcgtgcaggt agaacggcaa 180
 caactgttgt tgtgtcaaga aggcagcagg gctcacatca gctagctggc tgaatggtag 240
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 agcaaggttt gctagcacia gttgttgat ttgttgtgcc ctgatttttt gtgccaccaa 480
 atggaccaa ggtaactgct gtaatagggc tgacggttgt tggaggaaca agggtgataa 540
 tggttaagatg cctgttgca ttgcctgttg gatc 574

<210> 12855

<211> 501

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-117-Q6-N7-G10

<400> 12855

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 caaggggggg ttgtgggtaa aactgttg ggttggcaaa agcaggtggg ttgaagggca 120

acaattgttg cagttgaaaa aggggcccag cgttagggcat agcgggcagg taaaacggca 180
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cagcaaagtt aaatgcaccc agttgggtga atggaaaaaa ctgatgttgc taaaagtatc 420
cacaaggggt tgctaccaca agttgttgta tttgttgccc cctgattttt tgggccacaa 480
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<210> 12856

<211> 526

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-117-Q6-N7-G11

<400> 12856

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ctagtgtggt gaatggaaga aactgctggt gctgagagta ggcagcaagg tttgctagca 480
caagttgttg tagttgttgt gccctgatgt tttgtgcaa taaatg 526

<210> 12857

<211> 613

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-117-Q6-N7-G5

<400> 12857

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atcactgtaa acggaagtga ggggcatatc ttttccagta gaggcaacaa gtccaacagc 120
 aacaggatg aacataggct ccttaaccgg ctggccagga gtgggtggta cttcttggt 180
 aagtttcaaa gagaatgtct gagaactagg atcatatgaa gatgccacct tgactatagg 240
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 atccatgccc tttcggaacc ctgatgtcc aaacatggtc ttgtacattc tgacaacttc 420
 agcacccttc tcgtaaaccg taacagtata gaagttgtcc atcttgatat aagaatgggg 480
 acggatagga tgtgcatag gcccggcgtc ctgtgggaat tgatagattc taagtttga 540
 gacatcagca atacgtttta ccgtacgaca gccaagatct gaagagaact cctgatccct 600
 gaaaacggtc agt 613

<210> 12858

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-117-Q6-N7-H1

<400> 12858

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 gggggccccc cccaaggggg aaaaaattt ttgaaacccc ccgggggggg aagagaaaaa 120
 aaaaaggggg gaggggtgtt tttttttggg gggggggggc tttttttaag aaaaaaaaaa 180
 tttttttggg gggacaaaaa aaggacaata aaaaagggg ggccccccaa tttttttttt 240
 gtagaaaaaa ggttggtgtt ttaaaaaaaa aagggggaaa aggggggcac ctttggggtt 300
 aataaagggg gggggggggg ggggaaaaaa ttgggggaaa aaaaaaaaaa tttttgtttt 360
 taaaaaaaaa aggggggggg ttttgttaaa cacagccccc gggggggccc cc 412

<210> 12859

<211> 609

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-117-Q6-N7-H10

<400> 12859

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 actcataaga aatctaaaag agggcaccac caatgatggg ttgttggtag aacactgcta 180
 ggtttgtcaa agcaagttgg ttgaatggca gcaattgttg cagttgtaag aggggtgccag 240
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 ggctcacacc agctagctgg ctgaatggta gtagttgttg ctgctgtaaa taagcaggag 360
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 ggctgaatgg tagttgttgt tgttgcaaat aagaagcaga gttcaatgca gctagttggg 480
 tgaatggaag aaactgctgt tgctgagagt aggcagcaag gtttgctagc acaagttgtt 540
 gtagttgttg tgccctgatg ttttgtgcca ataatgcac caaaggtaac tgctgtaata 600
 gggtgatg 609

<210> 12860

<211> 550

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-117-Q6-N7-H11

<400> 12860

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 ggtaacagca cccatcgatc cgcagtcctt gctgggtgat gcatgggtct gctggagccg 120
 aggatgaaca cagcacttac aactgacaca gagcgacctt caatcaaaaa cacagatggg 180
 caacaacaaa cagcagacga acgaagataa acactctgga ctagggtaaa caacacggta 240
 gcgaacagga taacttgccc gcgcggggccc caccgttcag ttctccagt tcccgtcgga 300
 gttgccgtag ccgccgccac ggttgccacc gtcgtagccg tcgtcaccac caccgtagcc 360
 gccgtcgtca ccaccgtagc cgcgcgcacc gtcgtagccg ccgccgccat tacggtgccc 420
 gccaccggcg tagccgcgct cttcacggtc accaccgtac ccgccgtcgt cgtcgtcttc 480
 acgggcgncg ngggactggg cctcgttgac ggtgatgttg cggccgtcca gtccttgcc 540
 gttcatgccc 550

<210> 12861
<211> 70
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-117-Q6-N7-H12

<400> 12861

tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60
tttttttttt 70

<210> 12862
<211> 509
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-117-Q6-N7-H2

<400> 12862

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accattatcg agtacatctc atatgtaatc taaaagatgg caccaccaac gatgggttgc 120
tgccacgaca aggcagggtt catcaaagag aactgggttg atggcagcaa ttgttgctgc 180
tgttaggaagg cagcgaccaa tgggttagcc accgctagtgc gattaagtaa ctgttgctgc 240
tggttgtaggt acgcagcaga gttcgacaca gtcagttggt tgaatggaag tagttgttgc 300
aagtaggcag cagggtttgc cacagctagc tgagtaagag ctggtacaat ttgttgcagc 360
aactgttggt gcaacaactg ttgttgcagg tatgtaggtg cattgcccac agcgagcggg 420
ctagatgaaa gaagttgttg ctgtttagg taggcgatag gggtcaccat ggctagttag 480
ctgagcgctg gtagaaactg ttgcaactg 509

<210> 12863
<211> 615
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-117-Q6-N7-H3

<400> 12863

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cgaacatata agaccatgat aggtcatatg acatatataa gacctttatc tagcatatct 120
gtagtacccg tcttgctgct gaaaccagac taaagttggc gcaggtagac accgatcgca 180
gcgacgagcc tggtcgtcgc gcgtccatag aatcccacga tgctgctgcc gatgggcgcg 240
gtgatgcaga aacgtgtgcc gctctcgatg ccccatggcc cccaagctct ggcggtgctg 300
gtgacaatcc tgaacgaggt aagggtagtc gcaccttcga atgcgccgta cgttcagaa 360
acttccttga cgtattcagc gtcgccaaga tcgagcttcc ggacgttgcc gccaagtcca 420
cccatcgcc cagcgggtgcg cgtctgacca cctgtgtcgg tactgtaggt gaactcgatg 480
gagtccacgg caacgccggc gcggacggtc aggtcttgca gacgcctcgg cggctccgtc 540
gtcgcgatgt nctgcgccga cccttcctct tcaccccaca ctccgacctt ggtgacgacg 600
acggtggagc tgatg 615

<210> 12864

<211> 558

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-117-Q6-N7-H4

<400> 12864

cagacaaaaa actttattat tgaactataa ctcataagaa atctaaaaga gggcaccacc 60
aatgatgggt tggtgtaga acgctgctgg gtttgtaag gcaagttggt tgaatggcag 120
caattgttgc agttgtaaga gggtgccagc gttaggcgca gcgtgctggt agaacggcaa 180
caactgtggt tgtatcaaga aggtagcagg gctcacacca gctagctggc tgaatggtag 240
tagttgttgc tgctgtaaat aagcaggaga gttcaatgct gccagttggt tgaatggaag 300
aaattgctgg gggtaggcag caggtagctg gctgaatggt agttgttggt gttgcaaata 360
agaagcagag ttcaatgcag ctagttgggt gaatggaaga aactgctggt gctgagagta 420
ggcagcaagg ttgctagca caagttgttg tagttgttgt tggtgctcct cctggattat 480
ggattgaacc atgtttaga ttgcttggtg aatgtattgt ggctcaatct gcctaagatc 540
atgacaacat tggtgctg 558

<210> 12865

<211> 476

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-117-Q6-N7-H5

<400> 12865

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aaacaccaag cagcacatt accacatgca atgcaacgca atgcattctc gtgttctaata 120
gacaacgcgg ccggatcagc tgggtggcgtt gttgctagtc atcgggtcatc agccttttgca 180
ctatcagctc taccacggca ggggcattga cgggtgacagc gaccttcacg gtgggcatgc 240
cactccaggc tgtgatctct ccgtaccttt tcttgggtgtt gtcgaaaaca gtaaggccct 300
tgggtgatccc gactgtctgt accctcacia cgccttctgt gtaagtcagc agcgatgggt 360
tcaccgcagc aataaccgtc gttggatcgt gaagatacgc tccttttatg aagtgagcgt 420
ccctgtggta atcaaaataa acgcccatta tcttgcacaa gttgcgggcg tttttg 476

<210> 12866
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-117-Q6-N7-H6

<400> 12866

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aagctaacct acaatgtcaa ttggactaca ctctgaagca caatccactt tccgaatgtt 120
gtccacatac acaggcaatg ggaacatagc caatttaact agcaaaaaga tatgggtgtta 180
cacaaggcaa gcttttcaga taccattgag ccttctctag ttactttata aagatccggc 240
tatttgggca ctttagagct tttctctcca agagaaaagc tgcacacgca gcagatgact 300
actatgtaca gttaagcctg atcatcaata ataaaaacta gaattcttct ggcggagtgt 360
catttttcca aagaatagaa cgaacttgca ctatagatct ggggtggatct aggaacttcg 420
attggactgg tttacct 437

<210> 12867
<211> 566
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-117-Q6-N7-H7

<400> 12867

ctagaaatgt actttcttat ttctggaag ccacaaacat cagacaaaaa actttattat 60
tgaactataa ctcataagaa atctaaaaga gggcaccacc aatgatgggt tggtggtaga 120
atgctgttgg gtttgtcaaa gcaagttggg tgaatggcag caattgttgc agttgtaaga 180
gggtgccagc gttaggcgca gcgtgctggg agaacggcaa caattgtggg tgtgtcaaga 240
aggtagcagg gctcacacca gctagctggc tgaatggtag tagttgttgc tgctgtaaat 300
aagcaggaga gttcaaagct gtcagttggg tgaatggaag aaattgctgg gggtaggcag 360
cagatagctg gctgaatggg agttgttggg gttgcaaata agaagcagag ttcaatgcag 420
ctagttgggt gaatggaaga aactgttggg gctgagagta ggcagcaagg ttgctagca 480
caagttgttg tagttgttgg gccctgatgt tttgtgccat aaatgcacca aaggttaactg 540
ctgtaatagg gctgatgatt gttgga 566

<210> 12868

<211> 573

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-117-Q6-N7-H8

<400> 12868

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agctgagaaa agagacggaa ctgtagcttt tatgagcgct gctactaata ctcttcacag 120
agcatggctc tgtcatagta gtattattaa tcaccagatg caccaacagc aggcgatccg 180
gctgccaacg agcagaggca ccctcagaca agcacctgag ctgcagctag cctagcgatc 240
gggaccctga aaggggagca agaaacgtaa tccagcccag tcttggcgaa gaaagcaacc 300
gatgaaggct ctccaccatg ttctccacaa atgccacct tcaagttagg cctagctttg 360
cgccccctct ctgtagcaag cttaaccagc tcgcccactc ctctctgggc gagaacctcg 420
aaggggtcat gctggaggat gccctgagcc agataaatgg ggatgaactt ccccatca 480
tccttgctgt agccaaaggt catctgcgtg aggtcgttcg ttccaaagga gaagaattca 540
gcctgctccg cgatctcgtc agccactaga gct 573

<210> 12869

<211> 411

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-117-Q6-N7-H9

<400> 12869

aaagtcgaaa gtacagtntt gtttcttttt ttaaaaaaat gtataaacat gtcttacatc 60

acagaccaga acatcttggt taggtgacag cagatagttt tggatgaagc tgagctatgc 120

acaaacggag gtcagaagtc taaacaccac aaaatttgac taatctgttc ctcgaatcga 180

caaaaccctt ggaagaagag actataatat tcctctgcgc tgtactatac tatgaatact 240

tctgtcatat aactctcagc agctgcagtg cttgctgcac ttcatgcacc acagcaaaat 300

ttctactcac agatgtaacg atagcagcag aattgtggtg ccatgtactc aatccacgtg 360

ttgttttctt gtgagccgta gatttacata ccaatttgca aggcagcgca g 411

<210> 12870

<211> 665

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-088-Q1-K7-A10

<400> 12870

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caacatcaat tatctaactc caaaaacccat gaagctggtg cttgtggttc ttgctttcat 120

tgcttttagta tcaagtgttt cttgtacaca gacaggcggc tgcagctgtg gtcaacaaca 180

aagccatgag cagcaacatc atccacaaca acatcatcca caaaaacaac aacatcaacc 240

accaccacaa catcaccagc agcagcaaca ccaacaacaa caagttcaca tgcaaccaca 300

aaaacatcag caacaacaag aagttcatgt tcaacaacaa caacaacaac cgcagcacca 360

ccaccaacaa caacaacaac agcaccaaca acaacatcaa tgtgaaggcc aacaacaaca 420

tcaccaacaa tcacaaggcc atgtgcaaca acacgaacag agccatgagc aacaccaagg 480

acagagccat gagcaacaac atcaacaaca attccagggt catgacaagc agcaacaacc 540

acaacagcct cagcaatatc agcagggcca ggaaaaatca caacagcaac aatgtcattg 600
ccaggagcag caacagacta caaggtgcag ctataactac tatagcagta gctcaaattc 660
aaaaa 665

<210> 12871

<211> 268

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-088-Q1-K7-A2

<400> 12871

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ccaacagccg canccaagcc cgngccagcn gcagggaacc agcggcgang gcagcacccc 120
gaaccggggc cagggcgacg agaaacagag gcaacagagc agaccgacgg cgacgcccac 180
ccgcacgaca gagagccaga cgaagcggca gcagcgaagc acagaagcac aggcaggagg 240
agccaaaaga ccgggaccag gcgaacaa 268

<210> 12872

<211> 524

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-088-Q1-K7-A3

<400> 12872

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gctggagtac ttcagggagt accagacgaa gctggcggcg gtggccggcg ccgggcaggc 120
gcgctccatc ctcagcggcg cgctgtacat cgtcagtgcc ggcgccagcg acttcgtgca 180
gaactactac ataaaccgcg tgctgttcaa gacgcagacg gccgaccagt tctccgaccg 240
cctcgtggcc atcttcggcc gcaccgtgca ggagctctac ggcatggggg cgcgccgcgt 300
cggcgtcacg tcgctgccgc cgctgggctg cctgccggcg tccatcacgc tggtcgggca 360
cagcgccgcc ggggtgcgtgt ccaggctcaa cagcgacgcg cagagcttca accggaagat 420
gaacggcacc gtggacgcgc tggcgccggc gtaccgggac ctcaagatcg ccgtcttcga 480

catctacacg ccgttgtacg acctgtccac ggacccccag tcgc

524

<210> 12873

<211> 530

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-088-Q1-K7-A9

<400> 12873

gcgtccggat catgcaaaca aagtttggcc ctgttgccctt cttcttgctt acaaaatcaa 60
gtaccctgag aacttttttc ttctgagggg caatcatgaa tgcgccctcaa taaacagaat 120
atatggattc tatgatgaat gcaagcgtcg atttaatgtg cggctatgga aggtcttcac 180
agagtgtttt aacactctac ctgtggctgc tcttatcgat gataaaatat tatgtatgca 240
cgggtggactc tctcctgac tagcacactt ggatgagata aagaacttgc agcgtccaac 300
tgatgtacca gatcaaggtc tactgtgtga cttgctttgg tcagatccag gaaaagatgc 360
tcaaggggtgg ggcatgaatg atagaggggt ctcatatacc ttgggtgctg acaaggttac 420
agaattcttg caaaagcatg atcttgatct tatctgtcgg gctcaccagg ttgtccagga 480
tgggaatgaa tttttttgct gacaaacagc tagtaaccat attttcggac 530

<210> 12874

<211> 477

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-088-Q1-K7-B1

<400> 12874

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gccctgagga cgtcggcggc atgcacgcgg ctgccggaat cctcacagaa ttaggtgttt 120
tgacctccca tgccgccgtg gtggcacgcg ggtggggaaa atgctgngtc tcgggatgct 180
ctgggattcg tgtaaagac gcagagaagg ttgtgaagat tggaggcaat gtgctgggcg 240
aaggtgagtg gctatcgctg aatggatcga ccggcgaagt gatcctcgga aagcagccgc 300
tctccccacc agccctcagt ggcgatctgg gaacattcat gtctgggtg ggatgacgtt 360
agaaagctca agggcctggc aaacgcggat acccctgagg gatgattggc tgggcgggaa 420

aacgggggag aaaggaatcg ggtatgccgg acagagcaca tggtcttcgc ttcggat 477

<210> 12875

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-088-Q1-K7-B10

<400> 12875

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gctgcgccta acgctggcac cctcttacia ctgcaacaat tgctgccatt caaccaactt 180

gctttgacaa acccagcagc gttctaccaa caaccatca ttgggtggtgc cctcttttag 240

atttcttatg agttatagtt caataataaa gttttttgtc tgatgtttgt ggcttccag 300

aaataagaaa gtacatttct 320

<210> 12876

<211> 638

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-088-Q1-K7-B11

<400> 12876

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tccctcctta tgctccttgc tctttctgca tgtgttgcta acgcgacaat tttccctcaa 120

tgctcacaag ctcttatagc ttcccttctt ccccatacc ttccatcaat gatagcttca 180

gtatgtgaaa acccagctct tcagccctat aggctccaac aagcaatcgc agcaagcaac 240

atacctttat cacccttggt gtttcaacaa tcgccagccc tatctttggt gcagtcattg 300

gtacaaacca tcagggcaca gcagctgcag caactcgtgc tacctgtgat caaccaagta 360

gctctggcaa acctttctcc ctactctcag caacaacaat ttcttccatt caaccaactg 420

tctacactga accctgctgc ttatttgcag caacaactat taccattcag ccagctagct 480

actgcctact ctgagcaaca acaacttctt ccatttaacc aattggccgc actgaacccc 540

gctgcttatt tgcagcagca aataactacta ccatttagcc agctagctgc agcaaaccgt 600

gcttccttct tgacacagca acagttgctg cctttcta

638

<210> 12877

<211> 674

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-088-Q1-K7-B3

<400> 12877

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gggggtgggga gaggaggtgg tggctctgtc cctgcgaggc tacggctatg gcaacgagga 120
ggacgaccgg ccggagaagc cgcggcggta cggggtgacg gagatgcgga gccccttcta 180
ctccttcgcg cccgcaaacc aggcgctcca ggaaatattg gattctctta gtccattcgt 240
tgatggtttg aagttctctg gcggatgcca tagtttgatg ggaaaggagt tggttagaga 300
gatcactgat ctagcacaca ggcattgacat ttatgtgagc acaggtgatt gggcagagca 360
tttgctgcgc caaggaccct cttctttcaa gcaatatgta gaggaatgca aggccttagg 420
gtttgacaca attgagctga atgctgggtc tctcaacctc cctgaagagg ctctgttgag 480
actagtccgc ctcatcaaga gtagtggttt aaggggcaaag ccaatgtttt cggatgaagt 540
tgacagttct gatattcctg cgtctggtga tagggccttt ggggcttaca tagctccagt 600
caaagggaag acctcagaaa gagttgaaga tgttgacctg ctgattagga gggcagagag 660
atgcttgga gcaag 674

<210> 12878

<211> 667

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-088-Q1-K7-B4

<400> 12878

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cttccttatg ctcttggtc tttctgcaag tgttgctacc gcaaccattt tcccacaatg 120
ctcacaagct cctatagctt ccttcttcc cccatactc tcaccagcgg tgtcttcaat 180
gtgtgaaacc ccaattgttc aaccctacag gatccaacag gcaatcgcaa caggcatctt 240

accattatca cccttgttcc tccaacaacc gtcagcccta ttacagcagt tacctttggt 300
ccatttggtg gcacaaaaca tcagggcaca acaactacaa caacttgtgc tagcaaacct 360
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tgctgcttat ttgcaacaac.aattaccatt cagccagcta gttgctgcct acccccagca 480
atttcttcca ttcaaccaac tagcagcatt gaactctgct gcttatttac agcagcaaca 540
actactacca ttcagccagc tagctgatgt gagccctgct gccttcttga cacaacaaca 600
gttgttgccg ttctacctgc acgctatgcc taacgctggc accctcttac aactgcaaca 660
attgcta 667

<210> 12879

<211> 654

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-088-Q1-K7-B5

<400> 12879

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gcgggcagcg atccaaggca gccgtcgacg gcgaagccat acgcgccgcc gaagctgtcg 180
ccccaggacc taccatcga ctatgcaggc ttctctgccg tcgtcttcgg cgtcctcggc 240
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gcaaacatga agaactttga gaacgatctg aagcagcttt ctatggcctt catgtttgct 360
gttatgggtc tggtgacgaa ctattttggc ccgctcgtc caggcagtac aaagcgctaa 420
gctgtggaag aacaccatgc gcttcattct tcataggata tctagccgat ctttttggtg 480
cttccgatag ctttggtgct gacattatgt atgtccgatt tgagcaaacg tcataggtat 540
ggacatcaaa ttaatggacc ggtacatgta tgatgctcaa taatttattt gtgcaatact 600
agtaaacgca aagactgttt gaacgagtac ttggtttctt cggatatggt gatc 654

<210> 12880

<211> 661

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-088-Q1-K7-B6

<400> 12880

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gcaacatcaa ttatctaact ccaaaaaaca tgaagctggt gcttggtggt cttgctttca 120
ttgcttttagt atcaagtgtt tcttgtagac agacaggcgg ctgcagctgt ggtcaacaac 180
aaagccatga gcagcaacat catccacaac aacatcatcc acaaaaacaa caacatcaac 240
caccaccaca acatcaccag cagcagcaac accaacaaca acaagttcac atgcaaccac 300
aaaaacatca gcaacaacaa gaagttcatg ttcaacaaca acaacaacaa ccgcagcacc 360
aacaacaaca acaacaacaa cagcaccaac aacaacatca atgtgaaggc caacaacaac 420
atcaccaaca atcacaaggc catgtgcaac aacacgaaca gagccatgag caacaccaag 480
gacagagcca tgagcaacaa catcaacaac aattccaggg tcatgacaag cagcaacaac 540
cacaacagcc tcagcaatat cagcagggcc agggaaaaatc acaacagcaa caatgtcatt 600
gccaggagca gcaacagact acaaggtgca gctataacta ctatagcagt agtcaaactc 660
t 661

<210> 12881

<211> 594

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-088-Q1-K7-B7

<400> 12881

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atccaacca cttgctctgg cgaacgtagc tgcataccag caacaacaac agctgcaaca 120
gtttatgcca gtgctcagtc aactagccat ggtgaaccct gccgtctacc tacaactact 180
ttcatctagc ccgctcgcgg tgggcaatgc acctacgtac ctacaacaac agttgctgca 240
acaaattgta ccagctctga ctacagctagc tgtggcaaac cctgctgcct acttacaaca 300
gttgcttcca ttcaaccaac tggctgtgtc aaactctgct gcgtacctac aacagcgaca 360
acagttactt aatccattgg cagtggctaa ccattggctc gctaccttcc tgcagcagca 420
acaacaattg ctgccatata accagttctc tttgatgaac cctgccttgc agcaacccat 480

cgttggaggt gccatctttt agattacata tgagatgtac tgcacaatgg tgccctcata 540

ccgacatgtg tttcctagaa aaatcaatat attgattgag atttatctcg atat 594

<210> 12882

<211> 665

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-088-Q1-K7-B9

<400> 12882

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ccaatggcag ccaagatttt tgcgctcctt gccctccttg ctctttcagc aagtgttgct 120

accgcgacta ttattccaca atgctcacia caatacctct ctccagtgat agccgcgaga 180

tttgaatacc catctataca atcctacagg ctacaagagg ccatcacagc aagcatctta 240

cggtcgtttag cattgaccgt ccaacaacca tatgccctat tgcaacaacc atccttagtg 300

aatctgtatc tccaaagaat cacagcacia caactacaac aacggttgct tccaacaatt 360

aatcaagtag ttgcagcgaa ccttgctgct taccttcagc aacaacaatt tcttccattc 420

aatcaactag ctggggtgaa ccttgctgct tacttgagc cacaacagct actaccattc 480

aaccaacttg tcgggagccc tgctgccatc ttattgcagc aacagttgct gccattccgt 540

ctacaagttg ttgcaaacat tgctgctttc ttgcaacaac aacaattgct gccattttac 600

ccacaggttg tgggaaacat taacgccttc ttgcaacaac aacaattgct gccattctac 660

ccaca 665

<210> 12883

<211> 577

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-088-Q1-K7-C11

<400> 12883

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gcaactcgtg ctacctgtga tcaaccaagt agctctggca aacctttctc cctactatca 120

gcaacaacaa tttcttccat tcaaccaact atctacactg aaccctgctg cttatttgca 180

gcaacaacta ttaccattca gccagctagc tactgcctac tctcatcaac aacaacttct 240
 tccatttaac caattggccg cactgaacct cgctgcttat ttgcagcagc aaatattact 300
 accatttagc cagctagctg cagcaagccg tgcttccttc ttgacacagc aacagttgct 360
 gcctttctac cagcagtttg cggctaacct cgcaacctc ttacaactac aacaattgtt 420
 gccctttgtc caacttgctt tgacaaacct agcagcctcc taccaacaac acatcattgg 480
 tgggtgccctc ttttagattg cttattagtt gtaattcaat aataaagttt tttggatgat 540
 gtatgtggcc aaccagaaat aagaagttac atttccc 577

<210> 12884

<211> 661

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-088-Q1-K7-C12

<400> 12884

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 aatggctacc aagatattag ccctccttgc gcttcttgcc ctttttagtg agcgcaacaa 120
 atgcgttcac tattccacaa tgctcacttg ctctagtgcc cattattcca cagttcctcc 180
 caccagttac ttcaatgggc ttcgaacacc tagctgtgca agccaacatg caacaacaag 240
 cgcttgccgc gagcgtctta caacaaccaa ttgcccaatt gcaacaacaa tccttgccac 300
 atctaacaat acaagccatc acaacgcaac agcaacaaca gttcctacca gcactgagcc 360
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 ttgctctggc gaacgtagtt gcaaaccatc aacaacaaca gctacaacag tttctgccaa 480
 cgctcagtca actagccatg gtgaaccctg ccgcctacgt acaacaacaa caactgcttt 540
 catctagccc gctcgtgtg ggcaatgcac ctacatacct gcaacaacaa ttgttgcaac 600
 agattgtacc agctctgact caactagctg tggcaaacct tgttgctac ttgcaacagc 660
 t 661

<210> 12885

<211> 667

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-088-Q1-K7-C2

<400> 12885

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cggcggctgt ggctgccaga caccaccgtt tcactctaccg cctccgttct atatgccgcc 180
tccgttctat ctgccgccgc agcagcagcc gcagccatgg caatacccca ctcaaccacc 240
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gctgcaccgg taccaggcga catacgggtg ggtcctgcag tccttctctg agcagcagcc 480
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cggcctgcag ctgcagcagc cagggtccctg cccttgcaac gcagctgccg gcggtgtcta 600
ctactgagga aactatgtac tgtagtaata atgtaatgga gccgctgact agctacctag 660
ctcgcta 667

<210> 12886

<211> 650

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-088-Q1-K7-C5

<400> 12886

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tcgttctcgt cgtgtgcctg gctctgtcag ctgccagcgc ctctgcaatg cagatgccct 120
gcccctgcgc ggggctgcag ggcttgtagc gcgctggcgc cggcctgacg acgatgatgg 180
gcgccggcgg gctgtacccc tacgcggagt acctgaggca gccgcagtcg agcccgtctg 240
cggcggcgcc ctactacgcc ggggtgtgggc agacgagcgc catgtaccag ccgctccggc 300
aacagtgtcg ccagcagcag atgaggatga tggacgtgca gtccgtcgcg cagcagctgc 360
agatgatgat gcagcttgag cgtgccgctg ccgccagcag cagcctgtac gagccagctc 420
tgatgcagca gcagcagcag ctgctggcag cccatgggtc caaccccatg gccatgatga 480

tggcgcagaa catgccggcc atgggtggac tctaccagta ccagtaccag ctgcccagct 540
accgcaccaa cccctgtggc gtctccgctg ccattccgcc ctactactga ttcattgatat 600
ttgggaaatc tcctctatcc atccctctct atctatatat gtaataatgc 650

<210> 12887
<211> 613
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-088-Q1-K7-C6

<400> 12887

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gcatgcacta gctgactagc atctgtgtaa tcggtgaccg ctcttgactt gttggctcct 120
cgctcccacg gtagctaaag ctagctaggt ggggtggtagc accaccatgg cctcgcccaa 180
gcattctcat cgccatcatc gtgcggcggc gacgaagcat cgtcggccgc tggcgctgcg 240
gcgtgcgatg ctgcattcgt gcgtgtgctt cctggtgggt ctctgaccg gcctggcccc 300
ttccgactgg acggacgccg cctcgcgcg cgcgtgcac gcgaacggcg cggccacggc 360
gcatgtgttc cgcgcgctgc acgccatgaa ccagacggcg gcggcggggg cactgggcca 420
gctgctggcg ctgcagcact accagcagca gccagtgggt gagaaggaga aggagaagga 480
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gcgcgagcgg cggtcggcgg gtctgacgcg cacggcgcac gcgctgcgtc tgggtgtccc 600
tccttgggtg gcc 613

<210> 12888
<211> 596
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-088-Q1-K7-C7

<400> 12888

gttcctatca gactgagcc acctagccat ggtgaaccct gccgcctact tgcaagagca 60
gctgcttgca tccaaccac ttgctctggc gaacgtagtt gcaaaccagc aacaacaaca 120
gctacaacag tttctgcca cgctcagtc actagccatg gtgaaccctg ccgcctacgt 180

acaacaacaa caactgcttt catctagccc gctcgtgtg ggcaatgcac ctacatacct 240
gcaacaacaa ttgttgcaac agattgtacc agctctgact caactagctg tggcaaacc 300
tgttgectac ttgcaacagc tgcttccatt caaccaactg actctgtcga actctgctgc 360
gtacctacaa cagcgacaac agttacttaa tccattggta gtggctaacc cattggctgc 420
cgccttecta cagcagcaac aattgctgcc atacaaccag ttctctttga tgaatcctgt 480
cttgctgagg cagcaaccca tcgttggagg tgccatcttt tagattacat atgagatgta 540
ctcgataatg gtgccctcat accgacgtgt gtttctaga aatatcaata tattga 596

<210> 12889

<211> 630

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-088-Q1-K7-C8

<400> 12889

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gagagagagc catggcgggc gaccagcagc cgcagctgca ggaggagatg aacgacgctg 120
ccggcgggcg cctcaggctg cctccagggg tccgcttcca cccgagcgac ttcgagattg 180
tcagcttcta cctcaccaac aaggtgctca acacgcgctt cacctgcacc gccatcacgg 240
aggccgacct aaacaagatt gagccatggg acctcccgag caaggcgaag atgggcgaga 300
aagagtggta cttcttctac cagaaggacc gcaagtacc gacggggctg agggcgaacc 360
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cggaaggggt ggcggtactg gtcggcatga agaagacgct cgtcttctac aggggcaggg 480
ctcccagggg tgacaagaca aactgggtca tgcacgagta caggctcgaa ggcagcggca 540
ggctccccgc cggcctcgcg tccgcaaccg gctcagccgg cgcaaaccgc gggnggcctt 600
gaaagcttct gcttataagg atgagtgggt 630

<210> 12890

<211> 148

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-088-Q1-K7-C9

<400> 12890

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atttcttatg agttatagtt caataataaa gttttttgtc tgatgtttgt ggcttcccag 120
aaataagaaa gtacatttct agattctt 148

<210> 12891

<211> 650

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-088-Q1-K7-D10

<400> 12891

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ccttatgctc cttggtcttt ctgcaagtgc tgctacggcg accattttcc cgcaatgctc 120
gcaagctcct atagcttccc ttcttcccc gtacctctca ccagcgggtgt cttcggtatg 180
tgaaaaccca attcttcaac cctacaggat ccaacaggca atcgagctg gcattcttacc 240
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tttattggca caaaacatca gggcacaaca actacaacaa cttgtgctag caaaccttgc 360
tgccactct cagcaacagc agtttcttcc attcaaccaa ctaggttcat tgaactctgc 420
ttcttatttg caacaacaac aactaccatt cagccagcta cctgctgcct acccccagca 480
atttcttcca ttcaaccaac tagcagcatt gaactctcct gcttatttac agcagcaaca 540
actactacca ttcagccagc tagctggtgt gagccctgct accttcttga cacaaccaca 600
gttgttgccg ttctaccagc acgttgcgcc taacgctggc acctctttac 650

<210> 12892

<211> 666

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-088-Q1-K7-D11

<400> 12892

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ccttatgctc cttggtcttt ctgcaagtgc tgctacggcg accattttcc cacaatgctc 120
 acaagctcct atagcttccc ttcttcccc gtacctctca ccagcgggtg cttcggtatg 180
 tgaaaaccca attcttcaac cctataggat ccaacaggca atcgagctg gcattctacc 240
 tttatcacc cttgttctcc aacaatcctc agccctatta cagcagttac ctttgggtgca 300
 tttattggca caaaacatca gggcacaaca actacaacaa cttgtgctag caaaccttgc 360
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 ttcttatttg caacaacaac aactaccatt cagccagcta tctgctgcct acccccagca 480
 atttcttcca ttcaaccaac tgacagcttt gaactctctt gcttatttac agcagcaaca 540
 actactacca ttcagccagc tagctgggtg gagccctgct accttcttga cacaaccaca 600
 attgttgccg ttctaccagc acgctgcgcc taacgctggc accctcttac aactgcaaca 660
 attgct 666

<210> 12893
 <211> 493
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-088-Q1-K7-D12

 <400> 12893

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 ccatcaaggc acagcagctg cagcaactcg tgctacctgt gatcaaccaa gtagctctgg 120
 caaacctttc tcctactat cagcaacaac aatttcttcc attcatccaa ctatctacac 180
 tgaaccctgc tgcttatttg cagcaacaac tattaccatt cagccagcta gctactgcct 240
 actctcatca acaacaactt cttccattta accaattggc cgcactgaac ctcgctgctt 300
 atttgcagca gcaaatacta ctaccattta gccagctagc tgcagcaagc cgtgcttntc 360
 tcttgacaca gcaacagttg ctgcctttct accagcagtt tgcggctaac cccgcaacct 420
 tcttacaact acaacaattg gtgccctttg tccaacttgc tttgacaaac ccagcagcct 480
 cctaccaaca aca 493

<210> 12894
 <211> 694

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-088-Q1-K7-D2

<400> 12894

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tccttgggtct ttctgcaagt gctgctacgg cgaccatttt cccgcaatgc tgcgaagctc 120
ctatagcttc ctttcttccc ccgtacctct caccagcggg gtcttcggta tgtgaaaacc 180
caattcttca accctacagg atccaacagg caatcacagc tggcatctta cttttatcac 240
ccttgttcct ccaacaatca tcagccctat tacatcagtt acctttgggtg catttattgg 300
cacaaaacat cagggcacia caactacaac aacttggtgt agcaaactt gctgcctact 360
ctcagcaaca gcagtttctt ccattcaacc aactagctgc attgaactct gcttcttatt 420
tgcaacaaca acaactacca ttcagccagc tacctgctgc ctacccccag caatttcttc 480
cattcaacca actggcagca ttgaactctc ctgcttattt acagcagcaa caactactac 540
cattcagcca gctagctggg gtgagccctg ctaccttctt gatacaacca cagttgttgc 600
cgttctacca gcacgtgcg cctaacgctg gcacctctt acaactgcaa caattgctgc 660
cattcaacca acttgctttg acaaccagc agcg 694

<210> 12895

<211> 584

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-088-Q1-K7-D3

<400> 12895

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agcacaagaa gaagcggcta gtccagtccc ccaactcctt cttcatggat gtcaagtgcc 120
agggctgttt cagcataacc actgtgttca gccactccca gactgtgggt gtgtgcccag 180
gctgccaac tgttctctgc caaccaaccg gtgggaaggc caggctcacc gaggggtgct 240
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tgttttgcaa ctttctcagg atatgtgctg tgctcgggtga ggattttgtt aattattatg 360
gctgttagcg tggcctgaca atgcttgtgt aaacctgcac tttgtttgag cgtagtgaga 420

cagctaatat gggccaagc aaatgaaatc aactgggtggc gttatttgtc aggggtttaac 480
 tgaaagtgcc atttgtttgg ttggcttgga taatgctttc catttaggtg gcgttcgggt 540
 cagcaaacac agtggtaatg gtaacgtaaa gataaacagc acta 584

<210> 12896

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-088-Q1-K7-D4

<400> 12896

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 accaagcaat ctacaacatg gttcaatcca taatccagga ggagcaacaa caacaaccat 120
 gtgagttatg tggatctcaa caagctactc aaagtgcggg ggcaatcttg acagcagcac 180
 aatacctacc atcaatgtgc ggcttgtacc actcatacta ccaaaataat ccatgcagca 240
 gcaatgacat tagtgggtgt tgcaattgaa gaattgtgtc tacctagccg ttatactcat 300
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<210> 12897

<211> 677

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-088-Q1-K7-D6

<400> 12897

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 ccatactccc cagccgactc tgggattggg tattcccata tgctgttcac accagagaat 180
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 tgtgtgttca agggcatttt gccgatggg cgccctgtcg ccgtcaagaa gctcaagatt 300
 gggaatgggc aaggcgagcg tgagttcaag gctgaggtcg atactatcag cagagtacat 360
 cataggcatt tggtttctct agtaggctat tgcactgcgg agggccagcg aatgcttgtt 420

tatgattttg ttcccaacaa cacactatat taccacctcc atgtaagtga aacatcactg 480
gattggcgga caaggggtaa gattgcagct ggagcagccc gagggattgg ttacctccat 540
gaagattgtc atccacgtat tattcataga gatattaaat catccaatat tntgttggac 600
aacaactttg aagctcaagt ttctgatttt ggacttgcaa ggtagcggc tgattccata 660
cacatgtacc acacgtg 677

<210> 12898
<211> 626
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-088-Q1-K7-D8

<400> 12898

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gaaactatgt actgtagtaa taatgtaatg gagccgggtga ctagctacct atagggctat 600
agctagttca ctcgtttagc ggcgat 626

<210> 12899
<211> 663
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-088-Q1-K7-D9

<400> 12899

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 acgcttgaaa ccgacgacga ggccatatgc tggggaattg catattgtgt caagggtggt 420
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 aagatatcca ttgatttcta caaggaagga gatcccttga aaccagctgt gacaggcgtc 540
 ttagtgttcg tttccactcc agatccaatt ggcaacaagt actatcttgg ccctgctcct 600
 ttgcaggata tggcaaggca aattgctaca gccaatggcc ctactggcta taatagggat 660
 tac 663

<210> 12900

<211> 618

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-088-Q1-K7-E10

<400> 12900

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 agaaaatttc gctctccgc cccaagccgg gcgtcgagcg cgtcgctgtc tcctcgacc 180
 tctacaacca gggatccgcg actgcctatg atgtgtccat taatgacgac tcttggccaa 240
 cagaagtgtt tgagcttgtc actggagaga aatcgaagac attggaaagg cttgaccctg 300
 gtgccactgc ttcacacaca tatgtcctgg agacaaaaac acagggcagg ttccagggtt 360
 caccagctat cattacatac cgtgttccca caaagacagc tcttcaggag gcatactcaa 420
 ctcccatctt ccactggat attctcgctg agagacctcc agagaagaag tttgaatggg 480
 ctaagaggct tgtgatgaaa tacgggtcac ttgtgtctgt tgtctctttt gttggactgt 540
 ttatctacct tgtcgcgagc ccgtcgaaga gcagctcata ggcaagcaag aagagacgct 600
 gatctactta taggtcgc 618

<210> 12901
<211> 654
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-088-Q1-K7-E11

<400> 12901

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tgctgcctat caagaggcta aagaaaaatc aagtgaaact cctgtttttc ttcttttctc 180
tgtgaatgca agtggccagt ttgtcggcct tgctgaaatg gtgggtcgtg ttgattttga 240
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cattgtgaag gatgttccaa acagcttgct gaagcacatc attcttgaga acaatgaaaa 360
caagccagtg acgaacagca gagatacaca tgaggtgaag cttgagcaag gccttcaagt 420
gcttaagatt ttcaaggatc atgtctgcaa gacatccata ctggatgact tcggctttta 480
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ggtcattgat gtgaagctgc ccagcgtcac cgacatggag agaagtccta aaggagagac 600
tggatcaaca gaagttactg gggttgagac tgacgtcttg aacaaagagc gttt 654

<210> 12902
<211> 676
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-088-Q1-K7-E12

<400> 12902

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accaagatac tttccctcct tatgtcctt gctctttctg catgtgttgc taacgcgaca 120
attttccctc aatgtcaca agctcctata gcttcccttc ttcccccata ccttccatca 180
atgatagctt cagtatgtga aaaccagct cttcaaccct ataggctcca acaagcaatc 240
gcagcaagca acataccttt atcaccttg tttcaacaat cgccagccct atctttgggtg 300
cagtcattgg taaaaacat caaggcacag cagctgcagc aactcgtgct acctgtgatc 360

aaccaagtag ctctggcaaa cctttctccc tactatcagc aacaacaatt tcttccattc 420
aaccaactat ctacactgaa ccctgctgct tatttgcagc aacaactatt accattcagc 480
cagctagcta ctgcctactc tcatacaaaa caacttcttc catttaacca attggccgca 540
ctgaacctcg ctgcttattt gcagcagcaa atattactac catttagcca gctagctgca 600
gcaagccgtg cttccttctt gacacagcaa cagttgctgc ctttctacca gcagtttgcg 660
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<210> 12903

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-088-Q1-K7-E2

<400> 12903

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gcctaccccc agcaatttct tccattcaac caactggcag cattgaactc tcctgcttat 120
ttacagcagc aacaactact accattcagc cagctagctg gtgtgagccc tgctaccttc 180
ttgatacaac cacagttggt gccgttctac cagcacgctg cgcctaacgc tggcacccctc 240
ttacaactgc aacaattgct gccattcaac caacttgctt tgacaaacct agcagcgcttc 300
taccaacaac ccatcattgg tggcgccctc ttttagattt cttatgagtt atagttcaat 360
aataaagttt tttgtctgat gtttgtggct tcccagaaat aagaaagtac atttctaa 418

<210> 12904

<211> 513

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-088-Q1-K7-E3

<400> 12904

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gctaccacca gctccacagg ccgacggagg tggggacgcc gccgccgccg ccgcgaggg 120
aggcggctgc ccccgggcgc ttctggagga ggatgagcgt gagcagcgtg ctctcaccgc 180
ctttgttgca gtggcggccg gagggggagg cgacactgca cgagcgcgac gccggcgagg 240

agatcaagtc atcggcgccg gccgacgctg ataaggagct ggaaagcaag ttcgaggagg 300
 cgttgccgct cagctgctgg tcttcatgag catccatcca tcatggggaa cggagagacg 360
 cgagcgtgcc gccgaatcga agcgacctct cctctaaaca gccgtcctgt atatcttctc 420
 cgtgtatcaa aatccaccct tttgcttttag atttttgtac atttgtaatc gtcacatccg 480
 ctcaaatatg ttatatatat tttagtttgg agc 513

<210> 12905

<211> 645

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-088-Q1-K7-E4

<400> 12905 ,

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 gctcccatca ccgccgcccg cttegccacc tccaccatca ccaccgcccg cgtctccacc 180
 tccccactt acgtctcctc cgcgcgccatc accgcccacc ccgtcaccac cgccacctcc 240
 actgctgccc tcaccgccc caccacaacc acattccccg cctccaccgt tgtcgtcacc 300
 accgccacca ccaccactgc cgcattcccc acctccacca tcccagccc ccgcgccagt 360
 ctaccatccg ccaccaccac cacagtgccc accatgcccc gtcttgccc caccgtacc 420
 ctgcacacca acgcatccat ggccaccgccc gccaccatat taccgcggcc cattcccacc 480
 cacagacct gtccgatag catcacctcc tccccacag cagcaccatc catggccatc 540
 agtataacca gttcatatgg atcgccgncg cccctccgc tgcattgata gaaagaatct 600
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<210> 12906

<211> 667

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-088-Q1-K7-E5

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agggagggcg actgggactg cggcagctgc ggcaaccgga actacgcctt ccgctcgctc 120
 tgcaaccgtt gcaagcagcc gcgcctcctc gtcgacccta acaccccgcg cgactccaag 180
 tggctacccc gtgccgggga ctggatctgc accggttgca gtaacaataa ttatgcatcc 240
 agaaagaact gcaaaaagtg tggcctatcc aaggaggaag cagcaatgcc agcattgcaa 300
 atggcagggga tggctatgcc agcttatgca acttatatcg caagactaca gagccttgct 360
 gcttctgctt ctgcatataa gatgaacttt gggatggctg ccaactcacc tttgcagcag 420
 caactacttg caaatgcaaa ctggctctat gggatggctg gtagatatgg gatgcagtct 480
 tctggttggc cacttgcaa cagcagccca aatcagtttc caggtgttcc aaaggattgg 540
 cgtaatggag actggctctg cagctgtgga tttcataatt attcatctcg tactcagtgc 600
 aaagagtgtg gtgcacctat accatcaggc attcctcca caacaatgaa agctacgaca 660
 tctgatg 667

<210> 12907

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-088-Q1-K7-E6

<400> 12907

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 gcagcagcaa caccaacaac aacaagttca catgcaacca caaaaacatc agcaacaaca 180
 agaagttcat gttcaacaac aacaacaaca accgcagcac caccaccaac aacaacaaca 240
 acaacaacaa ttgctgccat tcaaccaact tgctttgaca aaccagcag cgttctacca 300
 acaaccatc attggtgggt cctcttttta gatttcttat gagttatagt tcaataataa 360
 agttttttgt ctgatgtttg tggcttccca gaaataagaa agtacatttc tagattctta 420
 caaa 424

<210> 12908

<211> 638

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-088-Q1-K7-E7

<400> 12908

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caagcgggtcc ttcaagtacg cgtgggtgct cgacaagctc aaggctgagc gtgagagagg 120
tatcaccatt gatatcgctc tgtggaagtt tgagaccacc aagtactact gcacggtcatt 180
tgatgccccct ggacaccgtg acttcatcaa gaacatgata actggtacct cccaggctga 240
ctgtgctgtc cttatcattg actccaccac tgggtggtttt gaggctggta tctccaagga 300
tggccagacc cgtgaacatg ctctccttgc gttcaccctt ggagtgaagc agatgatttg 360
ctgctgcaac aagatggatg caaccactcc caaatactcc aaggcacgtt atgaagagat 420
tgtgaaggaa gtctcatcct acctcaagaa agttgggtac aaccctgata agattgcctt 480
tgttcccatt tctggttttg agggcgacaa catgattgag aggtccacca accttgactg 540
gtacaaatgc ccaaccctgc ttgaggctct tgaccagatc accgaacca agatgccttc 600
ggacaagccc ctgcttctgc cctccagga tgtgtaca 638

<210> 12909

<211> 626

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-088-Q1-K7-E8

<400> 12909

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cctgactgtg atcgagtcca tgacgtgcgg tctgccaacg atcgcgacct gccatggtgg 120
ccctgctgag atcatcgtgg acggggtatc tggcctgcac attgaccctt accacagcga 180
caaggccgcg gatatcctgg tcaacttctt tgacaaatgc aaggcagatc cgagctactg 240
ggacaagatc tcacaggcg gctgcagag aatctatgag aagtacacct ggaagctcta 300
ctccgagagg ctgatgacct tgaccggcgt gtacgggttc tggaagtacg tgagcaacct 360
ggagaggcgc gagaccgccc gctacatcga gatgttctac gccctgaagt accgtagcct 420
ggcaagccag gttccgctgt ccttcgatta gtacggggaa agaagaagaa gaagaagccc 480
aggccggaga accatgcctt gcatttcgat ctgtttcacc gcaattcgca ttgttagtcg 540

tgtattggag ttatgtgtac cttgggtcca agaactttgg ttccttctcg ttttttttcc 600
 ttgtttgagc gtttttgggc agcgct 626

<210> 12910
 <211> 363
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-088-Q1-K7-E9

<400> 12910

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 caagcttggt gctgtgaagg cataggccgc atctcttcta tcattgtctt accactctag 180
 gtttctatgg tctgaagact tgtgattttc tccgcactgc tgttgctatt cccgtgtcgt 240
 aataatacga gatgttttaa gcggctgaac acacggtggt gtaatctggt actggtaagg 300
 tgcattgttg tatgaattgt ttctcaccog gaagaaccag accatcgggg attctagcat 360
 cgt 363

<210> 12911
 <211> 604
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-088-Q1-K7-F11

<400> 12911

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 atcagattct gcacgagtac aaaattcaca atgctgaggt gttattccgt gaagatgcta 180
 ctgtggatga tctcattgac gttatcgaag ggaaccggaa gtacataaag tgcgtctacg 240
 tatataacaa gatcgatggt gttggtatcg atgacgttga taatcttgct cggcaaccaa 300
 attcactagt gatcagctgc aatttgaagc tgaacttgga cagactactt gcgagaatgt 360
 gggaggagat gggcctagtg aggggtgtata caaagccaca gggccagcag cctgatttca 420
 cagaccatt tgttctttcc accgacagag gtggctgcac ggtggaggac ttctgcaatc 480

atatccatag aagtttgctc aaggacgtga agtatgtgct cgtatgggga accagcgcaa 540
 ggcactatcc acagcattgc ggcctcggcc atggccttaa cgacgagggt gtcgtccaga 600
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<210> 12912

<211> 368

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-088-Q1-K7-F2

<400> 12912

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 ggcgatcttc ggcttggtcc tccagtccat cctgcagcag ccgactccat gcccttacgc 180
 tgctgccggc ggtgtccccc actgaagaaa ctatgtgctg tagtatagcc gctggctagc 240
 tagctagttag agtcatttag cggcgatgat tgagtaataa tgtgtcacgc atcaccatgg 300
 gtggcagtgt cagtgtgagc aatgacctga atgaacaatt gaaatgaaaa gaaaaaagta 360
 ttngttcc 368

<210> 12913

<211> 663

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-088-Q1-K7-F4

<400> 12913

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 cttccattca accaactagc tgcattgaac tctgcttctt attgagacca actagcaaca 120
 tagaaagcac aatagtgtac caacaatggc agctaaaata ttttgctcc ttatgctcct 180
 tggctcttct gcaagtgtg ctacggcgac cttttccca caatgctcac aagctcctat 240
 agcttccett ctcccccggt acctctcacc aacgggtgtct tcggtatgtg aaaaccaat 300
 tcttcaacct tacaggatcc aacaggcaat cgcaacaagc aacttacctt tatcacacct 360

gttcttttcaa caatcgccag ccctatcttt ggtgcagtca ttggtacaaa ccatcagggc 420
agaacagttg cagcaactcg tgctaccagt gatcagccaa gtagctctgg caaacctttc 480
cccctactct cagcaacaac aatttcttcc attcaaccaa ctgtctatac tgaaccctgc 540
tgcttatttg cagcaacaac aactactacc attcagccag ctagctactg cctactctca 600
gcagcaacaa tttcttccat ttaaccaatt ggccgcactg aaccctctg cttatttcca 660
gca 663

<210> 12914
<211> 288
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-088-Q1-K7-F6

<400> 12914

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ttctgccaag ttcgtcaagt gcttttaggg ttcgccatgt tcatcatcgc tacctagtct 120
taagttatgc ccccttcatt tgctgagata tgtgtggcag atttgcacgc ttttggtatt 180
tcgtggctcc atgtgtgagc atgctgtgtc ctataacctg gtttatgaga tgagttgtta 240
aacttgcttg gcttgattgg ttttacctgt aagagctgat agttatat 288

<210> 12915
<211> 640
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-088-Q1-K7-F7

<400> 12915

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tcccttcttc ccccgtaact ctaccagcgc gtgtcttcgc tatgtgaaaa cccaattctt 120
caaccctaca ggatccaaca ggcaatcaca gctggcatct tacctttatc acccttggtc 180
ctccaacaat catcagccct attacatcag ttacctttgg tgcatttatt ggcacaaaac 240
atcagggcac aacaactaca acaacttgtg ctagcaaacc ttgctgcta ctctcagcaa 300
cagcagtttc ttccattcaa ccaactagct gcattgaact ctgcttctta tttgcaacaa 360

caacaactac cattcagcca gctacctgct gcctaccccc agcaatttct tccattcaac 420
 caactggcag cattgaactc tcctgcttat ttacagcagc aacaactact accattcagc 480
 cagctagctg gtgtgagccc tgctaccttc ttgatacaac cacagttggt gccgttctac 540
 cagcacgctg cgcctaacgc tggcaccctc ttacaactgc aacaattgct gccattcaac 600
 caacttgctt tgacaaaccc agcagcggtc taccaacaac 640

<210> 12916
 <211> 567
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-088-Q1-K7-F8

<400> 12916

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 ccgtcgtcaa gtccgagccg gccccggcgc cggagggcgg cggcggcgac aaggcggcca 120
 aggaggagga gaagaaggat gcaggcggag ccggaagcga ggagaagaag gacggcaagg 180
 aggaggaaga gaagaaggac ggcggcgaga agaattgagga gaagaaggac ggcggcgacg 240
 gagacggcga caagaaggac gaggccggcg acaaggacaa ggacccggcc gccagcctgt 300
 acatgcacta cccgcggttc ccgttcgctg gaggggtacta ccagccgccg gcctaccgcg 360
 cgcctccggg gtacccttac gcctaccagc cggcctacc gccgccgttc tacgcgccgt 420
 cgcaccacca cctgcaccag cagcagccca tggcgccgca gatcttcac gacgagaacc 480
 ccaacgcctg ctccgtcatg tagttgtcac tcaaattgtc tgtaaaaaaa aaagaaccgt 540
 aggaccctgt ctttgccggg ggtcctg 567

<210> 12917
 <211> 614
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-088-Q1-K7-F9

<400> 12917

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cgtggtgacg cggcggggcc tgcgcacctt cagccccgac ccggacgccg ccgcccggga 180
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 cttcgccacc ctgcgcgtcc tcgacgccga caccgtcgcc tgcctctacc cggcgtgga 300
 gctcgccgag cccaccatga tggccgtgct cccgcccgtc gtcggcgccg tcgcgggcta 360
 cgtcttcatg gtgttcccca acaaccggca cggcgtcggg taccagcca cggccgccac 420
 cgaggacttc cagcacaat actagccagc cggttcgtcg tcgttgaga gtactgtact 480
 gcgcgtgtgt ctttgattgt ctgtctgtct gattcattca tttgcttggg ggtgtggggg 540
 tgccgtcttt gtacgtcgtc tctgcttgtt cattcgggct ttcattaact tacggaatca 600
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<210> 12918

<211> 644

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-088-Q1-K7-G11

<400> 12918

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 gcggcgaaga agcccgcgga ggaggagccc gcgaccgaga aggcggagaa ggctccggca 180
 gggaagaagc cgaaggcgga gaaacgcctc cccgcgggca agtccggcgc cggcgagggc 240
 aagaagggca agaagaaagc caagaagagc gtggagacct acaagatcta catcttcaag 300
 gtgctcaagc aggtgcaccc cgacatcggc atctcgtcca aggccatgtc catcatgaat 360
 tccttcatca acgacatctt cgagaagctc gccgcggagg ccgccaagct cggccgctac 420
 aacaagaagc ccaccatcac ctcccgcgag atccagacct ccgtccgcct cgtcctaccc 480
 ggcgagctcg ccaagcacgc cgtctctgaa ggcacaaagg cggtcaccaa gttcacttcg 540
 tcttagattg gttgccttcc ctctcgtttg tactggtgtc tggtagtaga tctcatctag 600
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<210> 12919

<211> 665

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-088-Q1-K7-G2

<400> 12919

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ggcgggtgcg gctgccagcc accgcccgcg gttcatctac cgccgccggt gcattctgcca 180
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caacagccgc atccaagccc gtgccagctg cagggaacct gcggcggttg cagcaccgcg 420
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ccgcagcacc ggtaccaggc gatcttcggc ttggtcctcc agtccatcct gcagcagcag 600
ccgcaaagcg gccaggtcgc ggggtgttg gcggcgcaga tagcgagca actgacggcg 660
atgtg 665

<210> 12920

<211> 649

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-088-Q1-K7-G6

<400> 12920

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ttttgcttcc ttatgtcctt tggcttttct gcaagtgttg ctaccgcaac cattttccca 120
caatgtcac aagctcctat agcttccctt cttcccccat acctctcacc agcgggtgtct 180
tcaatgtgtg aaaccccaat tgttcaacc tacaggatcc aacaggcaat cgcaacaggc 240
atcttaccat tatcaccctt gttcctcaa caaccgtcag ccctattaca gcagttacct 300
ttggtccatt tgggtggcaca aaacatcagg gcacaacaac tacaacaact tgtgctagca 360
aaccttgtg catactctca gcaacatcag tttcttccat tcaaccaact ggctgcattg 420

aactctgctg cttatttgca acaacaatta ccattcagcc agctagttgc tgcctacccc 480
cagcaatttc ttccattcaa ccaactagca gcattgaact ctgctgctta tttacagcag 540
caacaactac taccattcag ccagctagct gatgtgagcc ctgctgcctt cttgacacaa 600
caacagttgt tgccgttcta cctgcacgct atgcctaacg ctggcaccc 649

<210> 12921

<211> 665

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-088-Q1-K7-G8

<400> 12921

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cctgagaact tttttcttct gaggggcaat catgaatgcg cctcaataaa cagaatatat 120
ggatttctatg atgaatgcaa gcgtcgattt aatgtgcggc tatggaaggt cttcacagaa 180
tgttttaaca ctctacctgt ggctgctctt atcgatgata aaatattatg tatgcacggt 240
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gggtggggca tgaatgatag aggggtctca tatacctttg gtgctgacaa ggtttcagaa 420
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gaatttgata atgctggtgc aatgatgagt gtcgatgaaa ctttgatgtg ctcatccaa 600
attctgaaac ctgctgagag aaaaaacaaa ttatggggtc caacaaaatg tgatagttaa 660
agcca 665

<210> 12922

<211> 570

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-097-Q1-K7-A11

<400> 12922

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ccttatgctc cttgggtcttt ctgcaagtgt tgctaccgca accattttcc cacaatgctc 120
acaagctcct atagcttccc ttcttcccc atacctctca ccageggtgt cttcaatgtg 180
tgaaacccca attgttcaac cctacaggat ccaacaggca atcgcaacag gcatcttacc 240
attatcacc cttgttctcc aacaaccgtc agccctatta cagcagttac ctttgggtcca 300
tttgggtggca caaaacatca gggcacaaca actacaacaa cttgtgctag caaaccttgc 360
tgcatactct cagcaacatc agtttcttcc attcaaccaa ctgggtgcat tgaactctgc 420
tgcttatttg caacaacaat taccattcat ccagctagtt gctgcctacc cccagcaatt 480
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actaccattc agccagctag ctgttgtgag 570

<210> 12923
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-097-Q1-K7-A12

<400> 12923

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gacggctcgg acacgttcgc cgccgtctgc tcgcggcgcg gcgagaaggg catcaaccag 120
gactgctcca tcgtctggga gggattcggg tgccaggagg gcaccatctt ctgcggcggg 180
ttcgacggcc acggcccgtg gggccactac gtggccaagg cgggtgcgga ctagctgacg 240
tcgacgttgt tgagccactg gcaggaggcg ctggtctctc gtcttactga tgggcgacgg 300
caagaagaag gtctgacact gtcagtataa aactgttgaa a 341

<210> 12924
<211> 311
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-097-Q1-K7-A2

<400> 12924

acaactgcaa caattgctgc cattcaacca acttgctttg acaaaccxaa cagcattcta 60
ccaacaaccc atcattggtg gtgccctctt ttagatttct tatgagttat agttcaataa 120

taaagttttt tgtctgatgt ttgtggcttg ccagaaataa gaaagtacat ttctaaaaaa 180
 aaaaaaaaaa aaaaaaaata aaaaaaaaaa aaaaaaaata aaaaaaaatg aaaaataaaa 240
 aaaaaaaatc tttttaaaaa aaaaaaataa ataaaacaaa tttatttatg ggggggggccg 300
 ttttagggga c 311

<210> 12925
 <211> 567
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-097-Q1-K7-A4

<400> 12925

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 tagccctcct tgcgcttctt gcccttttag tgagcgcaac aaatgcgttc attattccac 120
 agtgctcact tgctcctagt gccattattc cacagttcct cccaccagtt acttcaatgg 180
 gcttcgaaca tccagccgtg caagcctaca ggctacaact agcgcttgcg gcgagcgctt 240
 tacaacaacc aattgcccac ttgcaacaac aatccttggc acatctaacc ctacaaacca 300
 ttgcaacgca acaacaacaa caacaacagt ttctgccatc actgagccac ctagccgtgg 360
 tgaaccctgt cacctacttg caacagcagc tgcttgcatc caaccactt gctctggcga 420
 acgtagctgc ataccagcaa caacaacagc tgcaacagtt tatgccagt ctcagtcaac 480
 tagccatggg gaaccctgcc gtctacctac aactactttc atctagcccg gtcgcggtgg 540
 gcaatgcacc tacgtacctt caacaac 567

<210> 12926
 <211> 658
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-097-Q1-K7-A5

<400> 12926

gagaccaact agcaacatag aaagcacaat agtgtaccaa caatggcagc caaaatattt 60
 tgcttcctta tgctccttgg tctttctgca agtggtgcta ccgcaaccat tttcccacaa 120
 tgctcacaag ctctatagc ttcccttctt ccccatacc tctcaccagc ggtgtcttca 180

atgtgtgaaa cccaattgt tcaaccctac aggatccaac aggcaatcgc aacaggcatc 240
 ttaccattat cacccttggt cctccaacaa cgcgcagccc tattacagca gttacctttg 300
 gtccatttgg tggcacaaaa catcagggca caacaactac aacaacttgt gctagcaaac 360
 cttgctgcat actctcagca acatcagttt cttccattca accaactggc tgcattgaac 420
 tctgctgctt atttgcaaca acaattacca ttcagccagc tagttgctgc ctacccccag 480
 caatttcttc cattcaacca actagcagca ttgaactctg ctgcttattt acagcagcaa 540
 caactactac cattcagcca gctagctgat gtgagccctg ctgccttctt gacacaacaa 600
 cagttgttgc cgttctacct gcaagctatg cctaacgctg gcaccctctt acaactgc 658

<210> 12927

<211> 487

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-097-Q1-K7-A7

<400> 12927

naaggcctag cccaacttcc ccgagccccc cgcggcgcg cgcccgccc cccgcgccc 60
 ggtgctccc cgggtcgggc acgctcgcgt gcgtgcgect ctctacggcc accagcagca 120
 gccggcgccc gtgggcggcg gaggacagca gcgtcaggca ttccccgtcc cacatttgcc 180
 ggcgcccccg ggcgcgttct ctcagctttt ttaccgtcca gctgcaggtc cagcgttcgc 240
 cgccgcgccc gccgccggtg gaagcaacgg cgcaggcttc tacggtatgg ctcccatgat 300
 cggccccggg cccgaggtgc ccatgcccac ctatgcaggg agctcccaac tcagcagctc 360
 tgacaagaaa aacaaggcgg ctgtccatcc ctcggcgggc accgagccta agctgatcat 420
 cttnatcgag tgtggtggtg agccccgggt cgaggataac ttcaacgggg acagcggggc 480
 gtctacc 487

<210> 12928

<211> 615

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-097-Q1-K7-A9

<400> 12928

cagcatttaa aaacacacca agcgaagcgc actagcaacg acctaacacc aatggctacc 60
 aagatattag ccctccttgc gcttcttgcc ctttttagtga gcgcaacaaa tgcgttcatt 120
 attccacagt gctcacttgc tcctagtgcc attattccac agttcctccc accagttact 180
 tgaatgggct tcgaacatcc agccgtgcaa gcctacaggc tacaactagc gcttgcggcg 240
 agcgccttac aacaaccaat tgcccaattg caacaacaat ccttggcaca tctaacccta 300
 caaaccattg caacgcaaca acaacaacaa caacagtttc tgccatcact gagccaccta 360
 gccgtggtga accctgtcac ctacttgcaa cagcagctgc ttgcatccaa cccacttgct 420
 ctggcgaacg tagctgcata ccagcaacaa caacagctgc aacagtttat gccagtgtc 480
 agtcaactag ccatggtgaa ccctgccgtc tacctacaac tactttcatc tagcccgtc 540
 gcggtgggca atgcacctac gtacctacaa caacagtttg ctgcaacata ttgtaccagc 600
 tctgactcaa ctacg 615

<210> 12929

<211> 547

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-097-Q1-K7-B1

<400> 12929

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 gaggcctaag tcatcggcgg cgagccaaac tccacgagcg gaggaagagg aggggaagct 120
 gagacgagga ggcagctatg gggcagcagt cgctgatcta tgcgttcgtg gcccggtggca 180
 cggtcgtact ggccgagtac acggagttca ccggcacaag caacaacaag ttcacctaca 240
 actgcgacgg ccacaccttc aactacctcg tggaagacgg attcacatac tgtgttggtg 300
 ctgttgaatc agtggggcaa caaattccca ttgctttcat ggatagggtt aaggaggatt 360
 tcacaaaaag gtatggtggc gggaaagctg ctactgctgc ggctaacagc ctcaaccgag 420
 agttcagatt aaaacttaaa gagcacatgc agtattgtgt ggatcacctt gaagagggtta 480
 gcaagctggc caaagtggag gcacaggttt ctgaagtcaa ggggtgttatg atggaaaaaa 540
 ttgaaaa 547

<210> 12930
<211> 605
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-097-Q1-K7-B10

<400> 12930

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ctttatcacc cttgttcctc caacaatcat cagccctatt acatcagtta cctttggtgc 120
atattattggc acaaaacatc agggcacaa aactacaaca acttgtgcta gcaaacccttg 180
ctgcctactc tcagcaacag cagttttcttc cattcaacca actagctgca ttgaactctg 240
cttcttattt gcaacaacaa caactaccat tcagccagct acctgctgcc tacccccagc 300
aatttcttcc attcaaccaa ctggcagcat tgaactctcc tgcttattta cagcagcaac 360
aactactacc attcagccag ctagctggtg tgagccctgc taccttcttg atacaaccac 420
agttgttgcc gttctaccag cacgctgcgc ctaacgctgg caccctctta caactgcaac 480
aattgctgcc attcaaccaa cttgctttga caaaccagc agcgttctac caacaaccca 540
tcattggtgg tgccctcttt tagatttctt atgagttata gntaataata aagtttttgt 600
ctgat 605

<210> 12931
<211> 666
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-097-Q1-K7-B12

<400> 12931

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tgatgactgg gacagtttac gaaaaaaagt gctttctaatt ggtggggaca aacaaagaag 120
tcatgatgca aggatactg ttgattggga ggcagttagg caagcagaag tacgggaaat 180
atctgaaact atcagagaga gaggaatgaa taatatgcta gcagaacgga taaaggaatt 240
cttgaaccga ttggtgacag accatggaag cattgatctt gaatggctaa gagatgttca 300
accagacaaa gcaaaggact tccttctaag cattagaggg cttggactca aaagtgttga 360

gtgtgttcgc ctcttgacac tacatcatat ggcttttcca gtggacacaa atgttggtcg 420
gatatgtgtg aggcttggat ggggtgccact tcaaccactg ccagagtctc ttcagttgca 480
cctcttggaa atgtatccca tgctggagca catacagaag tacctctggc ctcgactatg 540
caaactagat caacgtacat tgtatgagct tcactaccaa atgattactt ttggaaaggt 600
tttctgcaca aaaagtaagc ctaattgcaa ttcattgtcca atgagagctg attgtaagca 660
ctttgt 666

<210> 12932
<211> 253
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-097-Q1-K7-B2

<400> 12932
cccggtggcg ataacaacat aagatatgaa gggccctaaac atgctnatga aggccattgc 60
tgaagacaca caagcgggtgc agtaggcaca gggcaacaat attagagtgt gacaaggatg 120
caaatgtanc tatacgaaaa agggccctgg aactagtata cctactatgt gaacgatgca 180
aatgataagc catagtctaa ggaacttgat gaaaaccttg aaaagagaga tcaaattttt 240
aaggaagacc tta 253

<210> 12933
<211> 621
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-097-Q1-K7-B3

<400> 12933
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tcgcagcagg catcttacct ttatcacctt tgttctcca acaaccgtca gccctattac 120
agcagttacc tttggtgcat ttgttggcac aaaacatcaa ggcacaacaa ctacaacaac 180
tggtgctagg aaaccttgct gcctactctc agcaacagca gtttcttcca ttcaaccaac 240
tggtgcatt gaactctgct gcttatttgc aacaacaact accattcagt cagctagctg 300
ctgcctaccc ccagcaattt cttccattca accaactggc agcattgaac tctgctgctt 360

atttacaaca gcaacagcta ccaccattca gccagctagc tgatgtgagc cctggtgcct 420
tcttgacaca acaacagttg ttgccgttct acctgcacgc tgcgcctaac gctggcacc 480
tcttacaact gcaacaattg ctgccattca accaacttgc tttgacaaac ccaacagcgt 540
tctaccaaca acccatcatt ggtggtgccc tcttttagat tgcttatgag ttatacttca 600
ataatgaagt tttttggatg a 621

<210> 12934

<211> 651

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-097-Q1-K7-B4

<400> 12934

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tttccccgtc gtccaagctc caccatgccc acacgtccgt cctgctcctc catgcacacg 120
cccatgcac cttatctccc tggaaacttc actcgtgtac ggctccctgg tgataatatt 180
cagcgatgct tcgccagggc accgttcccc tgcgcgctcg ctggacgccg tcgcacatgc 240
tccttgctcg gcctccccgg cgtgctgctc cctcgccttg gtgcccctgc gagctccttc 300
tctctggccc ggtttccagc tcgggcctcg ctagatgccg atgccgcttt tctgacctcg 360
tctcgatact caatcgctgc agcacgccat gccgtgtgtg ctgcactgtc atcattcgct 420
atcctcatct ttgctaattt ttctcgtcgt ttctcgtcta caaccttgct agctcctgcg 480
tgtcgtgccc gtcttgtgtt cgggtcgagc cccaggattt tgaggaaaag gaagctccag 540
tgcattggcc ggtgaaatga ataaaatgga ttttgaagaa aaggaagctc caatgcac 600
accggtgaaa tgaataaaat ggtggttaatt atggtccttg tgaaatctga g 651

<210> 12935

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-097-Q1-K7-B5

<400> 12935

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aactattacc attcagccag ctagctactg cctactctca gcaacaacaa cttcttccat 120
ttaaccaatt ggccgcactg aaccccgctg cttatttgca gcagcaaata ctactaccat 180
ttagccagct agctgcagca aaccgtgctt cttcttgac acagcaacag ttgctgcctt 240
tctaccagca gtttgcggt aaccccgcaa cctcttaca actacaacaa ttgttgccct 300
ttgtccaact tgctttgaca gaccgagcgg cctcctacca acaacacatc attggtggtg 360
ccctctttta gattgcttat tagttgtaat tcaataataa agtttttttg atgatgtatg 420
tggccaacca gaaataagaa gttacatttc cagatttta 459

<210> 12936
<211> 83
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-097-Q1-K7-B6

<400> 12936

gattttttat gcttattact gaaacaataa atttctcata ctgatatgtg caacttctca 60
gtaataaaaag attagagatc tat 83

<210> 12937
<211> 636
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-097-Q1-K7-B9

<400> 12937

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ctttatcaca cctgttcttt caacaatcgc cagccctatc tttggtgcag tcattggtac 120
aaaccatcag ggcagaacag ttgcagcaac tcgtgctacc agtgatcagc caagtagctg 180
tggcaaacct tccccctac tcttacaact gcaacaattg ctgccattca accaacttgc 240
tttgacaaac ccagcagcgt tctaccaaca acccatcatt ggtggtgccc tcttttagat 300
ttcttatgag ttatagttca ataataaagt tttttgtctg atgtttgtgg cttcccagaa 360
ataagaaagt acatttctna aaaaaaaaaa nnnnnnnnnn nnnnnnnnnn aaaaaaaaaa 420

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 480
 aaatggtggg ggggttttaa tttaaaaaaa tttaaattac gtttagatgg ggaggaaatt 540
 atttatatttt aaaagtaacc aaaacataaa ttgggggggg cggcctttta tataacaaaa 600
 attgaaatac ccgcgccggg cccaatctta tttttt 636

<210> 12938

<211> 495

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-097-Q1-K7-C1

<400> 12938

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 atccctcctt gcgcttcttg ccctttttgt gagtgaaca aatgcgttca ttattccaca 120
 atgctcactt gtcctgagtg ccattattcc acagttcttc cctccagtta cttcaatggg 180
 cttcgaacac ccagctgtgc aagcctatag gctacaacaa gcgcttgctg cgagcgtctt 240
 ataacaacca attgccaat tacaacaaca attcttggca catctaacca tacaaccat 300
 ggtaacgcat gaggaacaag cactgagcca cctagccgtg gtgaacccta tcgtctacta 360
 gcaacaacag ttgctggcat tcaaccact tgctttggca aacctagntt gataccaaca 420
 acaacaacag ttgcaacagt gtttaccagt gctcagttca cttgcccatg gtgaacccta 480
 tccaccgacc tacac 495

<210> 12939

<211> 612

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-097-Q1-K7-C10

<400> 12939

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 gccctattac aacagttacc tttggtgcat ttattggcac aaaacatcag ggcacaacaa 120
 ctacaacaac ttgtgctagc aaaccttgct gctactctc agcaacagca gtttcttcca 180
 ttcaaccaac taggttcatt gaactctgct tcttatttgc aacaacaaca actaccattc 240

agccagctac ctgctgccta cccccagcaa tttcttccat tcaaccaact agcagcattg 300
aactctcctg cttatttaca gcagcaacaa ctactaccat tcagccagct agctggtgtg 360
agccctgcta ccttcttgac acaaccacag ttgttgccgt tctaccagca cgttgcgct 420
aacgctggca ccctcttaca acigcaacaa ttgctgccat tcaaccaact tgctttgaca 480
aaccagcag tgttctacca acaaccatc attggtggtg ccctctttta gatttcttat 540
gagttatagt tcaataataa agttttttat ctgatgtttg tggcttccca gaataagata 600
gtacatttct ag 612

<210> 12940

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-097-Q1-K7-C12

<400> 12940

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tgtcaacctt ctcaggcctt tggggattgt aactataacc tagagttgca ttcctctaca 120
agtaactcgg tattgttact aaccatataa gctatccgtt gttccttggtt ttttgttcga 180
gacaaaggct gttgctggta aatgttacca atcatataag ctctcagtcg ttccttttct 240
tgattttggt tgagac 256

<210> 12941

<211> 579

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-097-Q1-K7-C2

<400> 12941

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catccagccg tgcaagccta caggctacaa ctagcgcttg cggcgagcgc cttacaacaa 120
ccaattgccc aattgcaaca acaatccttg gcacatctaa cctacaaac cattgcaacg 180
caacaacaac aacaacaaca gtttctgcca tcaactgagcc acctagccgt ggtgaaccct 240
gtcacctact tgcaacagca gctgcttgca tccaaccac ttgctctggc gaacgtagct 300

gcataaccagc aacaacaaca gctgcaacag tttatgccag tgctcagtca actagccatg 360
 gtgaaccctg ccgtctacct acaactactt tcacttagcc cgctcgcggt gggcaatgca 420
 cctacgtacc tacaacaaca gttgctgcaa caaattgtac cagctctgac tcagctagct 480
 gtggcaaacc ctgctgccta cttacaacag ttgctttcat tcaaccaact ggctgtgtca 540
 aactctggtg cgtacctaca acagcgacaa cagttactt 579

<210> 12942

<211> 502

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-097-Q1-K7-C3

<400> 12942

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 ttccattcaa ccaactgtct atactgaacc ctgctgctta ttgacagcaa caacaactac 120
 taccattcag ccagctagct actgcctact ctccagcagca acaatttctt ccatttaacc 180
 aattggccgc actgaacccc tctgcttatt tccagcagca aataactacta ccatttggcc 240
 agctagctac aacaagcccc gcttccttct tgacacaaca acaagtgtt ccgttctacc 300
 agcagtttgt ggctaacccc gcaaccctct tacaactgca acagttgctg ccctttgtcc 360
 aacttgcttt gacaaaccca gcagccttct accaacaaca catcattggc ggtgccctct 420
 tttagattgc ttattagttg taattcaata atgaagtttt ttggctgatg tatgtggcct 480
 cctagaaata agaagttata tt 502

<210> 12943

<211> 593

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-097-Q1-K7-C4

<400> 12943

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 gagcaacaat ggcgaccaag atactttccc tccttatgct ccttgctctt tctgcatgtg 120
 ttgctaacgc gacaattttc cctcaatgct cacaagctcc tatagcttcc cttcttcccc 180

cataccttcc atcaatgata gcttcagtat gtgaaaaccc agctcttcaa ccctataggg 240
 tccaacaagc aatcgcagca agcaacatac ctttatcacc cttgtttcaa caatcgccag 300
 ccctatcttt ggtgcagtca ttggtacaaa ccatcaaggc acagcagctg cagcaactcg 360
 tgctacctgt gatcaaccaa gtagctctgg caaaccttcc tccctactat cagcaacaac 420
 aatttcttcc attcaaccaa ctatctacac tgaaccctgc tgcttatttg cagcaacaac 480
 tattaccatt cagccagcta gctactgctt actctcatca acaacaactt cttccattta 540
 accaattggc cgactgaac ctgctgctt atttgcagca gcaaatatta cta 593

<210> 12944

<211> 652

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-097-Q1-K7-C5

<400> 12944

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 tctcgtcgtg tgcttggtc tgctcagctgc cagcgcctct gcaatgcaga tgccctgccc 120
 ctgcgcgggg ctgcagggt tgtacggcgc tggcgccggc ctgacgacga tgatgggcgc 180
 cggcgggctg taccctacg cggagtacct gaggcagccg cagtgcagcc cgctggcggc 240
 ggcgccttac tacgcgggt gtgggcagcc gagcgccatg ttccagccgc tccggcaaca 300
 gtgctgccag cagcagatga ggatgatgga cgtgcagtcc gtcgcgcagc agctgcagat 360
 gatgatgcag cttgagcgtg ccgctgccgc cagcagcagc ctgtacgagc cagctctgat 420
 gcagcagcag cagcagctgc tggcagccca gggctctaac cccatggcca tgatgatggc 480
 gcagaacatg ccggccatgg gtggactcta ccagtaccag ctgcccagct accgcaccaa 540
 cccctgtggc gtctccgctg ccattccgcc ctactactga ttcatgatat ttgggaaatc 600
 tctctatcc atctctctct atctatatat gtaataatgc agnaagacga ca 652

<210> 12945

<211> 601

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-097-Q1-K7-C6

<400> 12945

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cgcgtgcgca tgaaagcagt ggggatttgc ggcagcgatg tgcactacct caggagatg 120
cgcatcgcgc acttcgtggt gaaggagccg atggtgatcg ggcacgagtg cgcgggcgtg 180
gtcgaggagg tgggcgccgg cgtgacgcac ctgtccgtgg gcgaccgctt ggcgctggag 240
ccggggcgtca gctgctggcg ctgccgccac tgcaagggcg ggcggtacaa cctgtgcgag 300
gacatgaagt tcttcgccac cccgccggtg cacggctcgc tggcgaacca ggtggtgcac 360
ccggccgacc tgtgttcaa gctccccgac ggggtgagcc tggaggaggg cgccatgtgc 420
gagccgctga gcgtgggcgt gcacgcgtgc cgcgcgcggg ggggtggggc cgagacgggc 480
gtgctcgtgg tgggcgccgg ccccatcggc ctggtgtcgc tgcctggcggc gcgggccttc 540
ggcgcgccgc gcgtggtggt cgtggacgtg gacgagcacc gcctggccgt ggccaggtcg 600
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<210> 12946

<211> 188

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-097-Q1-K7-C7

<400> 12946

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gcngnngcta gntggntggg tggtnatagt ggttggtgna nataagcagg agggtttagt 120
gtagatagtt ggttgaatgg aagaaattga tgatgttgat agtaaggaga aaggtttgtt 180
atagctac 188

<210> 12947

<211> 662

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-097-Q1-K7-C8

<400> 12947

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tccctcctta tgctccttgc tctttctaca tgtgttgcta acgcgacaat tttccctcaa 120
tgctcacaag ctcttatagc ttcccttctt ccccatacc ttccatcaat tatagcttca 180
atatgtgaaa acccagctct tcaaccatat aggcttcaac aagcaatcgç agcaagcaac 240
atacctttat cgcccttggt gtttcaacaa tcgccagccc tatctttggt gcagtcattg 300
gtacaaacca tcagggcaca acagctgcag caactcgtgc tacctctgat caaccaagta 360
gctctggcaa acctttctcc ctactctcag caacaacaat ttcttccatt caaccaactg 420
tctacactga accctgctgc ttatttgcag caacaactat taccatttag ccagctagct 480
actgcctact ctgagcaaca acaacttctt ccatttaacc aattggccgc actgaacccc 540
gctgcttatt tgcagcagca aatactacta ccatttagcc agctagctgc agcaaaccgt 600
gcttccttct tgacacagca acagttgctg cctttctacc agcagtttgc ggctaacccc 660
gc 662

<210> 12948
<211> 404
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-097-Q1-K7-D1
<400> 12948

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gaannnnccc ncnagggcg ccnagcncnn ncnacaagng nngcnaacgc gacaannnnc 120
ccncaaggcn cacaagcncc nanagcnacc cnncnacccc caaaccnncc aacaannaga 180
gctggcaanan gngaaaaccc agcncnncaa ccaaanaggc nncaacaagc aancgcagca 240
agcaacaaac cnnnancgcc cnnngnngna caacaaacgc cagcccaaac nnnngngcag 300
ncannngnac aaaccancag ggcacaacag cngcagcaac ccgngccacc ncngancaac 360
caagnagcac gggcaaaccn aacccccaac acacagcaac aaca 404

<210> 12949
<211> 558
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-097-Q1-K7-D10

<400> 12949

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cagcagcagg gcatggcggc agtggcgctg gtagtgctgg tgggtgctggc ggcgacggcg 120
gccgagacgg cgtcggcggc ttctgtgaac gccgggcagc tggcgggcgtg cgcgccggcg 180
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cgcaaggctc tgcctcctg cggcgctctc gtgcccgcgt gctagtaâta gtacgtgtgc 360
tgtgcatgca tgtacgtgcg cacgtgggct gatcttctct cttgtttcgt gtcttgccgc 420
gcgccatcag gtgtttgtgt cacttttctg tttagtctct ctacatgtgt actggcctcg 480
tgtaccgctc ctctatagtc gtgtcgtgta cgggctaatt aatatatata cgacgaataa 540
aggatgagtt cggccact 558

<210> 12950

<211> 578

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-097-Q1-K7-D11

<400> 12950

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ggagctgaag gaaagtgtga agagtttcca ggggtgtttg gatggcaagt atgatgacct 180
ccctgagcag tcattctaca tggttggagg cattgaggaa gtcattgcta aggccgagaa 240
aatcgccaag gagtctgctt cataaggcgg cttcttgctt gttgaatcct gtacaatcaa 300
gttccatttt tggatttaag cgattgttta tgcttttcgc agttâggcag cacgagttgg 360
aggccatct cctgctgaga tgcttgtttt tctctttggt gttcaaacac ttacaccca 420
aataagcaac tgcagtgaca ttaattttgg ctgcacaaa gttacatgaa ctgaagaaac 480
ttgtggcctg tgtgacggcg atcaatcaga acataaagtt acggcttctg gttggtaaan 540

aaaaannnnn nnnnnnnnnn nnnnnnnnnn nnnnnnna

578

<210> 12951

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-097-Q1-K7-D2

<400> 12951

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actagcagca ttgaactctc ctgcttattt acagcagcaa caactactac cattcagcca 180
gctagctggg gtgagccctg ctaccttctt gacacaacca cagttgttgc cgttctacca 240
gcacgttgcg cctaacgctg gcaccctctt acaactgcaa caattgctgc cattcaacca 300
acttgctttg acaaaccag cagtgctcta ccaacaaccc atcattgggtg gtgccctctt 360
ttagatttct tatgagttat agttcaataa taaagttttt tatctgatgt ttgtggcttc 420
ccagaaataa gaaagtacat ttctag 446

<210> 12952

<211> 653

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-097-Q1-K7-D4

<400> 12952

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ccgtgcacct ctgcttcgcc gtgaacgcgc ggcccatgct gcacgcgtcg ctcccgcggg 120
gcggcgcggg gttctacggc aactgctact acatcatgcg cgtgtcggcg cccgcgggga 180
aggtggcggg cgctcggtc gcggaggtgg tgaggatgat caaggacggg aagcgccgga 240
tgcccgcgga gttcgcgcg tgggcgggcg gggagctggg cgccggcggc gtcgaccct 300
accagatcac gtccgactac cgcacgtgc tgggtgtcga ctggacgcgc ctcggttcg 360
cggaggtgga ctacggatgg ggcccgcccg cgcacgtcgt gccgctgaca aacctggact 420
acatcgccac gtgcctctc gtgaagccct gggcccacaa gccaggggcg cggctcatca 480

cgcagtgcgt caccgccgac cgcgtcgccg ccttccacga ggccatgctc gacaccagct 540
gctgatcgga gagaagagat gagtctgggg gctctatttg catgcatcgt ctgtgtctgt 600
gtggtgggaa gccgccgcct acttacagaa atatgtgaca ttattcatga tat 653

<210> 12953

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-097-Q1-K7-D5

<400> 12953

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gcccggtggcg ggctgcca tcggttccg cttccgcccc accgacgagg agctgctgct 120
gcactacctc cgccgaagg cgctggcctg cccgctcccc gccggcgta tccccgacgc 180
cgacctcgcg cgctccacc cgtgggacct cctccccgcc gccgcaccag ggggatccgg 240
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ggggggcggc gcggccagg cgcccgccac cggcgtctgg aggccgtccg gcaaggagac 360
cctcgtctcg tccccgcgct gcaagcgccc cgtcggcacc aagcggacgc tcgtattctg 420
cccccgcc 428

<210> 12954

<211> 621

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-097-Q1-K7-D6

<400> 12954

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ccaagcgcg acctcggtga cctagctagc tacctagcta gttcaggcga cgatatggcg 120
tctggtcagg agagcaggaa ggagctggac cgcaaggctc gcgaggcgga gaccgtcgtc 180
cccggcgga ccggcgcaa gagcgtcgag gcccaggagc acctcgccga agggcgacgc 240
cgcgagggcc agactcgag ggagcagctg gggcagcagg ggtacagcga gatggggaag 300

aagggcggtc tgagcaccac ggacgagtcc ggcgggcgagc gcgccgccag ggagggcgtc 360
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 gtagctgtct gcgtagtgta ccttggccgt agctagtgtc actctctact ttggagtagc 480
 tgaatgataa taatgtagct agcagcatgc atgtaggcga tcatacatac gtacgtacac 540
 aggtacgtgt gtgtgatcat gtatgcttnc agaagggat cctagcttaa tcagtcacgt 600
 cgtcaagtcg tcaatatggc a 621

<210> 12955

<211> 670

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-097-Q1-K7-D7

<400> 12955

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 atagcttccc ttcttcccc gtacctctca ccagcgggtgt cttcggtatg tgaaaacca 120
 attcttcaac cctacaggat ccaacaggca atcacagctg gcattcttacc tttatcacc 180
 ttgttctctc aacaatcatc agccctatta catcagttac ctttggtgca tttattggca 240
 caaaacatca gggcacaaca actacaacaa cttgtgctag caaaccttgc tgcctactct 300
 cagcaacagc agtttcttcc attcaacaa ctagctgcat tgaactctgc ttcttatttg 360
 caacaacaac aactaccatt cagccagcta cctgctgcct acccccagca atttcttcca 420
 ttcaaccaac tggcagcatt gaactctcct gcttatttac agcagcaaca actactacca 480
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 ttctaccagc acgctgcgcc taacgctggc accctcttac aactgcaaca attgctgcca 600
 ttcaaccaac ttgctttgac aaaccagca gcgttctacc aacaacccat cattggtggt 660
 gccctctttt 670

<210> 12956

<211> 496

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-097-Q1-K7-D8

<400> 12956

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gctagcaaac cttgctgcat actctcagca acatcagttt cttccattca accaactggc 120
tgcattgaac tctgctgctt atttgcaaca acaattacca ttcagccagc tagttgctgc 180
ctacccccag caatttcttc cattcaacca actagcagca ttgaactctg ctgcttattt 240
acagcagcaa caactactac cattcagcca gctagctgat gtgagccctg ctgccttctt 300
gacacaacaa cagttgttgc cgttctacct gcacgctatg cctaacgctg gcaccctctt 360
acaactgcaa caattgctgc cattcaacca acttgctttg acaaaccxaa cagtgttcta 420
ccaacaaccc atcattgggtg gtgccctctt ttagattgct tatgagttat agttcaataa 480
tgaagttttt tggatg 496

<210> 12957

<211> 648

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-097-Q1-K7-E1

<400> 12957

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cctcaatact cacaagctcc tatagctgcc cttcttcccc cataccttcc atcaatgacc 180
gcttttagtat gtgaaaaccc agcccttcaa ccctacagga tccagcaagc aatcgcaaca 240
agcaacttac ctttatcaca cctgttcttt caacaatcgc cagccctatc tttggtgcag 300
tcattggtac aaaccatcag ggcagaacag ttgcagcaac tcgtgctacc agtgatcagc 360
caagtagctc tggcaaacct ttccccctac tctcagcaac aacaatttct tccattcaac 420
caactgtcta tactgaaccc tgctgcttat ttgcagcaac aacaactact accattcagc 480
cagctagcta ctgcctactc tcagcagcaa caatttcttg cattnaacca attggccgca 540
ctgaaccctt ctgcttattt ccagcaggca atcctactac catttggcca gctaggctac 600
aacaaggccc gcttccttct tgacacaaca accagtgtt gcgttcta 648

<210> 12958

<211> 629

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-097-Q1-K7-E11

<400> 12958

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ctactcttct cacagcaata ggctgcagag aacttcctat ccctgaacac atggacatat 120
accatctaag ccatgagatt gaagcttctg acatgtctgc actgcaagcc attgttagtt 180
gtgacgaaga aagagtgaag ttggaaaagg aagctgaaat tttggctgca caggatgatg 240
gtggtggtga agcattggag cgtgtttatg agcgtctaga tgcaatggat gctggaactg 300
cagaaaagcg agctgctgaa attttatttg gtctggggtt tgacaaacaa atgcaagcaa 360
agaaaactaa agatttctct ggaggttggc gtatgaggat tgcttttagca agagcactgt 420
ttatgaatcc aacaatcctt ttgcttgatg agcccacaaa ccatctagat cttgaggctt 480
gtgtctgggt ggaagagaca ctgaagaaat ttgaccgcat acttgttgct atatcacact 540
cccaagattt tctaaatgga gtgtgtacta acattatcca tatgcaaaac aagaagctca 600
agttatacac cggttaactac gatcagtat 629

<210> 12959

<211> 580

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-097-Q1-K7-E2

<400> 12959

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tctggatgcc tcaaagagtg aaggacatcg tcaaataatta actagagaac tggaagctgt 180
tggaactcgt cttaacaaaa ggctcccca gatatacttc aagaggaaga agacgggtgg 240
gatttctttc aataccactg ttcctttgac tcatattgat gagaagctgt gctatcagat 300
tctgcacgag taaaaattc acaatgctga ggtgttattc cgtgaagatg ctactgtgga 360
tgatctcatt gacgttatcg aagggaaccg gaagtacata aagtgcgtct acgtatataa 420

caagatcgat gttggtggta tcgatgacgt tgataatctt gctcggcaac caaattcact 480
 agtgatcagc tgcaattgaa gctgaacttg gacagactac ttgctaaaat gtgggaggag 540
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<210> 12960

<211> 666

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-097-Q1-K7-E3

<400> 12960

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 ggtcttcgtt gtcaccttcg ccggcgactg tcacggcccc ttcgccagct cttcgtctgc 180
 cccttccccg gtaccgggac tgaagataag atggctgcct tgccattggc caccgcagaa 240
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 gttgatgccg gtgggagcat gcgttgtgca gttttgggtg gcaaccttgc ccagctgatg 480
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 aatggctgcg acgttggtgt ccgggctctg aactcacacc ctatgaagtc aaacaagaag 600
 ggcgtcggtg agaagcatgt ccctgtgacc tttgcaggga caagaatctg cgatggagaa 660
 tggctc 666

<210> 12961

<211> 530

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-097-Q1-K7-E4

<400> 12961

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ctcacaagct cctatagctt ccttttcttcc cccatacctc tcaccagcgg tgtcttcagt 180
atgtgaaaac ccaattcttc aaccctacag gatccaacag gcaatcgcag caggcatctt 240
accttttatca cccttggttcc tccaacatcc gtcagcccta ttacagcagt tacctttggt 300
gcatttggtg gcacaaaaca tcaaggcaca acaactacaa caacttggtg taggaaacct 360
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tgctgcttat ttgcaacaac aactaccatt tcatcagcta gctgttgctt acccccagca 480
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<210> 12962

<211> 613

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-097-Q1-K7-E5

<400> 12962

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cattgctcgc aagctcctat agcttccctt cttccccctg acctctcacc agcgggtgtc 180
tcggatatgtg aaaaccaat tcttcaacct tacaggatcc aacaggcaat cgcagctggc 240
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aactctgctt cttatttgca acaacaacaa ctaccattca gccagctacc tgctgtctac 480
ccacagcatt ttcttcattc aaccaactag cagcattgaa ctctcctgct tatttacagc 540
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aaccacagtt gtt 613

<210> 12963

<211> 670

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-097-Q1-K7-E6

<400> 12963

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caatgctcac aagctcctat agcttccctt cttcccccat acctctcacc agcgggtgtct 180
tcaatgtgtg aaaaccaat tgttcaaccc tacaggatcc aacaggcaat cgcaacaggc 240
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aactctgctg cttatttgca acaacaatta ccattcagcc agctagttgc tgcctacccc 480
cagcaatttc ttccattcaa ccaactagca gcattgaact ctgctgctta ttacagcag 540
caacaactac taccattcag ccagctagct gatgtgagcc ctgctgcctt cttgacacaa 600
caacagttgt tgccgttcta cctgcacgct atgcctaacg ctggcaccct cttacaactg 660
caacaattgc 670

<210> 12964

<211> 670

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-097-Q1-K7-E7

<400> 12964

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gcctcagcaa tatcagcagg gccaggaaaa atcacaacag caacaatgtc attgccagga 180
gcagcaacag actacaaggt gcagctataa ctactatagc agtagctcaa atctaaaaaa 240
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ggagcaacaa caacaacat gtgagttatg tggatctcaa caagctactc aaagtgcggt 480
ggcaatcttg acagcagcac aatacctacc atcaatgtgc ggcttgtacc actcatacta 540

ccaaaataat ccatgcagca gcaatgacat tagtggtggt tgcaattgaa gaattgtgtc 600
 tacctagccg ttatactcct ataacggtgt taagcaataa agtaccatac attatgatgt 660
 ttgtactatg 670

<210> 12965

<211> 595

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-097-Q1-K7-E9

<400> 12965

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 aaccaattc ttcaacccta taggatccaa caggcaatcg cagctggcat cttaccttta 240
 tcacccttgt tctccaaca atcatcagcc ctattacagc agttaccttt ggtgcattta 300
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 cttccattca accaactgac agctttgaac tctcctgctt atttacagca gcaacaacta 540
 ctaccattca gccagctagc tgggtgtgagc cctgctacct tcttgacaca accac 595

<210> 12966

<211> 160

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-097-Q1-K7-F10

<400> 12966

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 ggtgggtgcc tcttttagat ttcttatgag ttatagttca ataataaagt tttttgtctg 120
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<210> 12967

<211> 191

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-097-Q1-K7-F11

<400> 12967

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<210> 12968

<211> 665

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-097-Q1-K7-F2

<400> 12968

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gagaattttg agaaatacct accatatgcc atgccgatgc ttcaaggagc tgctgaactt 540
cttggcactc ttgatcagag tgatgatgat atggttgatt atggcaacca gctcagacgt 600
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atgat 665

<210> 12969

<211> 793
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-097-Q1-K7-F4

<400> 12969

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<210> 12970
 <211> 550
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-097-Q1-K7-F5

<400> 12970

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taaaccacca cgttttgaac aaggtgaagg tgtagcctt gacgacattg atgctgcgtt 180
gaatgattca gaggaccgtc ttgtggcaga gaaaagagag aaaccagaat ccatgaacgc 240

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<210> 12971

<211> 577

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-097-Q1-K7-F7

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 ctctacatca tctccgtcaa gggcatcaag ggccgcctca accgcctccc gtccgcctgt 180
 gtcggcgaca tggatcatggc caccgtaaag aagggaaagc ccgacctcag gaagaaagtg 240
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 aatgccatcg tttgagagct tgttggaatg tgtttagact tgagtatgat catctcaatt 480
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<210> 12972

<211> 649

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-097-Q1-K7-F8

<400> 12972

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 aaaatgaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa acaaaaaaa aaaaaaaaaa 240
 aaaagggggc ccccccttaa aaaacccaaa tttatctccc cggggggtcca aaaaaaaaat 300
 tttttttttg gggcccaaaa aaaaaaaacc cgggccatt ttttaaaaac ccgaaactga 360
 aaaaaccccg gggttcccc atttaaacc cttgaaaaaa acccccctt ccccccttg 420
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<210> 12973

<211> 158

<212> DNA

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<223> Clone ID: LIB3061-097-Q1-K7-G1

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 actgaaaggg gagccagaga tcatataaca aagagaaa 158

<210> 12974

<211> 654

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-097-Q1-K7-G10

<400> 12974

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 actactacca ttcagccagc tagctggtgt gagccctgct accttcttga cacaaccaca 600
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<210> 12975

<211> 602

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-097-Q1-K7-G12

<400> 12975

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 aaataagata tttgtgatga gtcagttcaa ttctacttgc cttaaccgcc atattcatcg 420
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 acaaatgcct gaagagccag ctggatggtt ccagggtaca tcatactcta tcagaaaatt 540
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<210> 12976

<211> 592

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-097-Q1-K7-G2

<400> 12976

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ctacccccag caatttcttc cattcaacca actggcagca ttgaactctc ctgcttattt 540
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<210> 12977

<211> 608

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-097-Q1-K7-G4

<400> 12977

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ctctgatg 608

<210> 12978
<211> 614
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-097-Q1-K7-G5

<400> 12978

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gcaacaacaa caactgcttt catctagccc gctcgtctgt ggcaatgcac ctacatacct 240
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<210> 12979
<211> 601
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-097-Q1-K7-G6

<400> 12979

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<210> 12980

<211> 637

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-097-Q1-K7-G7

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caacaaatgc gttcattatt ccacaatgct cacttgctcc gagtgccatt attccacagg 180
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gcccgtcgc tatgggcaat gcacctacat acctgcaaca acagttgttg caacaacagt 600
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<210> 12981

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-097-Q1-K7-H10

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<210> 12982

<211> 590

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<210> 12983

<211> 201

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-097-Q1-K7-H3

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<210> 12984
 <211> 80
 <212> DNA
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<223> Clone ID: LIB3061-097-Q1-K7-H4

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<210> 12985
 <211> 610
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-097-Q1-K7-H9

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 caattttccc tcaatgctca caagctccta tagcttccct tctttcccca taccttccat 180
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<210> 12986

<211> 644
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-101-Q1-K7-A11

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<210> 12987
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-101-Q1-K7-A2

<400> 12987

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<211> 618
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 12988

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tatacttgtc tcctggtt 618

<210> 12989
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-101-Q1-K7-A5

<400> 12989

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cctcttttag attgcttatt agttgtaatt caataataaa gttttttgga tgaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaata 240
aaaatataaa aggaatgaag atatattata atgtagggtt tgtttttgtg gttttttttt 300

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318

<210> 12990

<211> 522

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-101-Q1-K7-A6

<400> 12990

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aagttgagtc caaggcggtt tgctcaaaga agcttaccaa agaggatgta gtgaagttcc 120
ggaatgcagt agcgaaggac tactacttcc agatgtacta tgatgatctc cactgtggg 180
gcttcattgg taaagttgag aagggaggca aggccgatcc gagcgagtgg aagtactacc 240
tgtacaggca catcatcttc gatatcctgt acaacaacga ccgggtgatt gaaatcaatg 300
tgcacactga tcagagtga ttggttgacc tgacggagga taaggagaca aatgtggatt 360
tctgtactc agtcaagtgg aaggagacac caacaccatt tgagaagagg atggagaagt 420
actccagctc ctccaacatg ccgcaccacc tggaggttca ttggttctca atcataaact 480
cttgtgttac tgtctctc ctcacagggt tcttgcaac aa 522

<210> 12991

<211> 657

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-101-Q1-K7-A7

<400> 12991

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agccaaaatt tttgctcct tatgctcctt ggtctttctg caagtgtgc tacggcgacc 120
attttccgc aatgctcgca agctcctata gcttcccttc tcccccggt cctctacca 180
gcggtgtctt cgggtgtgta aaaccaatt cttcaaccct acaggatcca acaggcaatc 240
acagctggca tcttacctt atcacccttg ttcctccaac aatcatcagc cctattacat 300
cagttacctt tgggtgcattt attggcacia aacatcaggg cacaacaact acaacaactt 360
gtgctagcaa accttgctgc ctactctcag caacagcagt ttcttccatt caaccaacta 420

gctgcattga actctgcttc ttatttgcaa caacaacaac taccattcag ccagctacct 480
gctgcctacc cccagcaatt tcttccattc aaccaactgg cagcattgaa ctctcctgct 540
tatttacagc agcaacaact actaccattc agccagctag ctgggtgtgag ccctgctacc 600
ttcttgatac aaccacagtt gttgccgttc taccagcacg ctgcgcctaa cgctggc 657

<210> 12992

<211> 612

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-101-Q1-K7-A8

<400> 12992

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cctacaggat ccaacaggca atcgcagcag gcattcttacc ttatcaccc ttgttctctc 120
aacaaccgtc agccctatta cagcattttt ttttggtgca ttgttggcg cagggggatg 180
agggcacaac aactacaaca acttgtgcta ggaaaccttg ctgcctactc tcagcaacag 240
cagtttcttc cattcaacca actggctgca ttgaactctg ctgcttattt gcaacaacaa 300
ctaccattca gtcagctagc tgctgcctac cccagcaat ttcttccatt caaccaactg 360
gcagcattga actctgctgc ttatttataa cagcaacagc taccaccatt cagccagctt 420
gctgatgtga gccctgttgc cttcttgaca caacaacagt tgttgtcgtt ctacctgcac 480
gctgcgccta acgctggcac ccttttataa ctgcaacaat tgttgccatt caaccaactt 540
gctttgacaa acccaacatc gttcttccaa caacccatca ttgggggtgc cctcttttta 600
gatgcttttg ag 612

<210> 12993

<211> 584

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-101-Q1-K7-A9

<400> 12993

ccgtttcgac ccacgcgttc tttgttaata acaacagtta tgacaaatgt cggcgaagat 60
ttgacctggg tgatgcagac tatcttaggt atcatggtat gcaagagttt gatcaggcaa 120

tgcaacatct tgagcaaaaa ttgaattcat gacatctgat caccagtata tttcccggaa 180
 acatgaggag gataagggtga ttgtgttcga aaagggagat ttggtatttg tgttcaactt 240
 ccactgcaac aacagctatt ttgactaccg tattgggttg cgaaagcctg ggggtgtataa 300
 ggtggtcttg gactccgacg ctggactatt tgggtggattt agcaggatcc atcacgcagc 360
 cgagcacttc accgccgact gttcgcatga taataggcca tattcattct cggtttatac 420
 accaagcaga acatgtgtcg tctatgctcc agtggagtga tagcggggta ctcgttgctg 480
 cgcggcattg gtggggctgt cgatgtgagg aaaaaccttt tccaaaaccg gcagatgcat 540
 gcatgcatgc tacaataagg ttctgatact ttaatcgatg ctgg 584

<210> 12994

<211> 644

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-101-Q1-K7-B1

<400> 12994

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 accattttcc cgcaatgctc acaagctcct atagcttccc ttcttcccc gtacctctca 120
 ccagcgggtgt cttcgggatg tgaaaacca attcttcaac cctacaggat ccaacaggca 180
 atcgcagctg gcattctacc ttatcaccc ttgttctcc aacaatcatc agccctatta 240
 cagcagttac ctttgggtgca ttattggca caaacatca gggcacaaca actacaacaa 300
 cttgtgctag caaaccttgc tgctactct cagcaacagc agtttcttcc attcaaccaa 360
 ctagctgcat tgaactctgc ttcttatttg caacaacaac aactaccatt cagccagcta 420
 cctgttgccct accccaaca atttcttcca ttcaaccaac tggcagcatt gaactctcct 480
 gcttatttac agcagcaaca actactacca ttcagccagc tagctggtgt gagccctgct 540
 accttcttga cacaaccaca gttgttgccg ttctaccagc acgctgcgcc taacgctggc 600
 accctcttac actgcaacat tgctgccatt caccaacttg cttt 644

<210> 12995

<211> 673

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-101-Q1-K7-B10

<400> 12995

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tttgcttcct tatgctcctt ggtctttctg caagtgtgc taccgcaacc attttccac 120
aatgctcaca agctcctata gcttcctttc ttccccata cctctcacca gcggtgtctt 180
cagtatgtga aaaccaatt cttcaacct acaggatcca acaggcaatc gcagcaggca 240
tcttaccttt atcacccttg ttctccaac aaccgtcagc cctattacag cagttacctt 300
tggtgcattt gttggcaca aacatcaagg cacaacaact acaacaactt gtgctaggaa 360
accttgctgc ctactctcag caacagcagt ttcttcatt caaccaactg gctgcattga 420
actctgctgc ttatttgcaa caacaactac cattcagtc gctagctgct gcctaccccc 480
agcaatttct tccattcaac caactggcag cattgaactc tgctgcttat ttacaacagc 540
aacagctacc accattcagc cagctagctg atgtgagccc tggtgccttc ttgacacaca 600
cagttgttgc cgttctacct gcacgctgcg ccctacgctg gcaccctctt acaactgcaa 660
caattgctgc cat 673

<210> 12996

<211> 691

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-101-Q1-K7-B11

<400> 12996

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caatggcagc caaaatattt tgctcctta tgctccttgg tctttctgca agtgtctgta 120
cgggcaccat ttccccgcaa tgctcgcaag ctctatagc ttcccttctt cccccgtacc 180
tctcaccagc ggtgtcttcg gtgtgtgaaa acccaattct tcaaccctac aggatccaac 240
aggcaatcgc agctggcatc ttacctttat cacccttggt cctccaacaa tcatcagccc 300
tattacaaca gttacctttg gtgcatttat tggcacaaaa catcagggca caacaactac 360
aacaacttgt gctagcaaac cttgctgcct actctcagca acagcagttt cttccattca 420

accaactagg ttcattgaac tctgcttctt atttgcaaca acaacaacta ccattcagcc 480
 agctacctgc tgcctacccc cagcaatttc ttccattcaa ccaactagca gcattgaact - 540
 ctctgctta tttacagcag caacaactac taccattcag ccagctagct ggtgtgagcc 600
 ctgctacctt cttgacacaa ccacagttgt tgcggttcta ccagcacgtt gcgcctaacy 660
 ctggcaccct cttacaactg caacaattgc t 691

<210> 12997
 <211> 647
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-101-Q1-K7-B4

<400> 12997

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 caacatcaat tatctaactc caaaaaccat gaagctggtg cttgtggttc ttgctttcat 120
 tgcttttagta tcaagtgttt cttgtacaca gacaggcggc tgcagctgtg gtcaacaaca 180
 aagccatgag cagcaacatc atccacaaca acatcatcca caaaaacaac aacatcaacc 240
 accaccacaa catcaccagc agcagcaaca ccaacaacaa caagttcaca tgcaaccaca 300
 aaaacatcag caacaacaag aagttcatgt tcaacaacaa caacaacaac cgcagcacca 360
 ccaccaacaa caacaacaac agcaccaaca acaacatcaa tgtgaaggcc aacaacaaca 420
 tcaccaacaa tcacaaggcc atgtgcaaca acacgaacag agccatgagc aacaccaagg 480
 acagagccat gagcaacaac atcaacaaca attccagggt catgacaagc agcaacaacc 540
 aacacagcct cagcaatatc agcagggccca ggaaaaacac aacagcaaca atgtcattgc 600
 caggagcagc aacagactac aaggtgcagc tattactact atagcag 647

<210> 12998
 <211> 612
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-101-Q1-K7-B7

<400> 12998

tcgaccacagc gtccttttag tcttgatcc gcatgttcta gcagaggtaa tggcactgaa 60

ggcaaccagc ttaagcctag gattgatgat gaaacggctg atgctgtaaa ggcttctgct 120
 tcggctgttt ctgctattgc caaaacaaac caacaactgc ttgcttcaaa ggatgaagaa 180
 aagaagatac tagtgacgtt gacacaagct ctagattccc aagccaagga gttaaaatcc 240
 ttgaccgatt caatcgggtca taccagggaa ccataaata ttaccagga tgataggttt 300
 tctcagtacc gccactgga agaccatgcc cctactgtta taaggaatgg ggcaattaac 360
 agttcatgga gagcctctca gcaaactaac atgtatggtg tgtcaaattg cgactttggt 420
 tccgtgaggt cttcatttgc gccagcacct gctgaaccta cagctggatc attttcaaga 480
 tcctatggcg agccgatgtc cactgcacaa cgaagcgata ggtcttctgg cagtaagcca 540
 tgggagatgc attcgtattc acaacagggg cctgggttatg gatccaactc ccatttgagt 600
 gatgatgggt ca 612

<210> 12999
 <211> 340
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-101-Q1-K7-B8

<400> 12999

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 aaattcccgg gccctttact cataaatttc gacatgctga tcctttggct ctctgtcttc 120
 ttgagcgttt gcttgcatth gatcctaaag tccttttctt ttgcagaaga ggctgtgggg 180
 gggggctgct ttgcttccct tgctnatgtg gaacgtgntg cctcttgtct cccgctttct 240
 gaacttgtgt ttgtatttgg ttgaaagagg ctggccttag atgttggtcg gtgtctgttc 300
 tcttcggtgg ttttggtgtg tcatccaccg ctgctggggg 340

<210> 13000
 <211> 532
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-101-Q1-K7-C1

<400> 13000

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 gtagctctgg caaacctttc tccctactct cagcaacaac aatttcttcc attcaaccaa 120
 ctgtctacac tgaaccctgc tgcttatttg cagcaacaac tattaccatt cagccagcta 180
 gctactgcct actctcagca acaacaactt cttccattta accaattggc cgcactgaac 240
 cccgctgctt atttgacgca gcaaatacta ctaccattta gccagctagc tgcagcaaac 300
 cgtgcttcct tcttgacaca gcaacagttg ctgcctttct accagcagtt tgcggctaac 360
 cccgcaaccc tcttacaact acaacaattg ttgccctttg tccaacttgc tttgacagac 420
 cgagcggcct cctaccaaca acacatcatt ggtggtgccc tcttttagat tgcttattag 480
 ttgtaattca ataataaagt tttttggatg atgtatgtgg ccaaccagnn na 532

<210> 13001

<211> 691

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-101-Q1-K7-C10

<400> 13001

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 aacaatggca gccaaaattt ttgcctcctt atgctccttg gtctttctgc aagtgtgtgt 120
 acggcgacca ttttccaca atgctcaca gctcctatag cttcccttct tccccgtac 180
 ctctcaccag cgggtgtctt ggtatgtgaa aaccaattc ttcaacccta taggatccaa 240
 caggcaatcg cagctggcat cttaccttta tcacccttgt tctccaaca atcatcagcc 300
 ctattacagc agttaccttt ggtgcattta ttggcacaaa acatcagggc acaacaacta 360
 caacaacttg tgctagcaaa ccttgctgcc tactctcagc aacaacagtt tcttccattc 420
 aaccaactag ctgcattgaa ctctgcttct tatttgcaac aacaacaact accattcagc 480
 cagctatctg ctgcctaccc ccagcaattt cttccattca accaactgac agctntgaac 540
 tctcctgctt atttacagca gcaacaacta ctaccattca gccagctagc tgggtgtgagc 600
 cctgctacct tcttgacaca accacaattg ttgccgttct accagcacgc tgcgcctaac 660
 gctggcaccc tcttacactg caacattgct g 691

<210> 13002
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-101-Q1-K7-C11

<400> 13002

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tgatgtttgt ggcttcccag aaataagaaa tacatttcta gattcttaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaatt ttttttaaaa 180
aaaaaaaaaa aaaaagagga gggagaaaaa aaaaaaaaaa aaaaaaaaga aaaacaaaaa 240
aaaaaaaaact aaaccgaaa aaacaaaaaa aagaatgaaa aaaaaaaaaa aaaaaaaaaa 300
aaaggggggg cgctcttta aagtgtatgt gttctttggc gggcgcgggg ggcaaatttt 360
ttttttttag gactccccta aaataaaaaa ggggcggggt ttccaaactt tttggcgagg 420
aaaaagcctg ggtgtgccca tttttttt 447

<210> 13003
<211> 578
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-101-Q1-K7-C12

<400> 13003

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agaagaagac tgcagaattt ctctttcaac actctaccat gttcttgtaa caacttgctg 120
ggtgatggct ccatttacac cattctttac tgaagttctt tatcaaaatt tgcggaaggt 180
gtcaagtaat tctgaggaga gcatccactt ttgcaagttc cttccacaa ctggcgagag 240
agatgagcgt gttgagcaaa gtgtaaagag gatggtgacc ataattgatc ttgcacgtaa 300
tattcgtgag cggcataaca aagctctcaa aacaccactc aaggaaatgg tggttgtgca 360
tccagacaat gacttccttg aagacatcac tggcaaaacta aaggagtatg tcatggagga 420
aatcaatgtt aagaatgtca ctccatgtaa tgacccttg atgtatgctt ctctgcgagc 480
cgagcctaatt ttcagcgtgc taggaaaaag acttggaataa gaatgggaaa agtatcaaat 540

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578

<210> 13004

<211> 484

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-101-Q1-K7-C2

<400> 13004

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cgcgaaacggg caccgtgtca tggctgtctc tccccgctac gaccagtaca aggacgcctg 120

ggacaaccagc gtcgtgtccg agatcaagat gggagacggg tacgagacgg tcaggttctt 180

ccactgctac aagcgcggag tggaccgcgt gttcgttgac caccactgt tcctggagag 240

ggtttgggga aagaccgagg agaagatcta cgggcctgtc gctggaacgg actacagggg 300

caaccagctg cggttcagcc tgctatgcc a ggcagcactt gaagctccaa ggatcctgag 360

cctcaacaac aaccatact tctccggacc atacggggag gacgtcgtgt tcgtctgcaa 420

cgactggcac accggccctc tctcgtgcta cctcaagagc aactaccagt cccacggcat 480

ctac 484

<210> 13005

<211> 504

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-101-Q1-K7-C3

<400> 13005

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tgcaacaaca atccttgcca catctaacaa tacaagccat cacaacgcaa cagtttctct 180

gttcctacca gactgagcc acctagccat ggtgaaccct gccgcctact tgcaagagca 240

gctgcttgca tccaaccac ttgctctggc gaacgttggt gctnaccagc ttcaacaaca 300

gctacaacag tttctgccta cgctcagtc actagccatg gtgaaccctg ccgccttcgt 360

tcaacaacaa caactgcttt catctagccc gctcgtgtg ggcattgctc ctacattcct 420

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 tgttgcctac ttgcacaggt gctt 504

<210> 13006
 <211> 534
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-101-Q1-K7-C4

<400> 13006

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 cccagcagca tgcctccgtg ggccaagtgg gtggccgggg ccgtcactact tgtcgatccc 120
 gtatctacag gaggttcaga actttagaag atggagagtt ctttgagggtg gccatcgagg 180
 tgggtggggcg gtggcggagg cggcggagaa ggtcgccggc gaggtcgccg gcgcgtttcc 240
 cggctacgac ggtctcaggg aagcggcctt gaagattaag acggtcgagg ttgagatcgt 300
 ggaagacgcc gagaaagccg aggccctaatt tgagaagggtt gacgagatca agaattgagg 360
 ttgttcaatt gtggatccta ttatcgacaa ggttgtcttg gacaatgaat ttttttgaca 420
 ggtggtgaac tgtagatgta aacatttggtt gggctgggtc ggttgggaat ggtttcggtt 480
 atttgttcag gtgttaaagt tcttttcggt ttgctaaccg ctttgttttt taaa 534

<210> 13007
 <211> 638
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-101-Q1-K7-C5

<400> 13007

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 tatccagcgg cctnntgaag ccggagaatc ggccctgaen nggcctcgct cgagnatnnt 120
 ctcccgtaat nncgcctacc accgagnaag gggtcatttt ggagggggagc agctgcann 180
 ctgaagaaat acccattcag gagaactant tcnncaaaat tcgtgatgta gaaaaaagag 240
 ttnagagagt cttactttan gaaatgaaac tgacatctgg accaaagaaa gcagcactag 300

agcatctgag gaagaagatt gaaatatcaa cagagaaaat acgttttagct aaggtgaaag 360
 aggaacatgc aaaaaagact tgggaagttg ctgcacaagt tgttaaagac gaagaggatg 420
 ctaagcagaa attatgtgat gacctaaacc atctagtcca ggagagtgtg gcttcccaat 480
 atgcaagatt ggaggagctg aagaaacgtt tagaatctct aaatcccata agggattctg 540
 ttaatgtgtc aggtgtttat actgcacagc atgctactct gaattcagta cctcagcaac 600
 caactgcaca aaatcctgca gatgtaactg gccgtcag 638

<210> 13008

<211> 267

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-101-Q1-K7-C6

<400> 13008

gaccacgcg ttcgctggcg ttggagtgcc atcttttacg cttacatatg agatgtactc 60
 gacaatggcg cctcataacc gacatgtgtt tcctagaaat aatcaatata ttgattgaga 120
 tttatctcgc tcttgaaaaa aaaaaaaaaa aaaaaaaaaa ataataatat ttttttttaa 180
 aaaaaattac tggggggggg gggagataat aaaaagggtg gtggttggtg tggttctgtt 240
 gttgggccgt ttgtctgctg cgttttt 267

<210> 13009

<211> 635

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-101-Q1-K7-C7

<400> 13009

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 cctctttgcg cttcttgccc tttttgtgag cgcaacaaat gcgttcatta ttccacaatg 120
 ctacttgct cctagtgcc aatttccaca gttcctccct ccagttactt caatgggctt 180
 cgaacaccca gctgtgcaag cctacaggct acaacaagcg cttgoggcga gcgtcttaca 240
 acaaccaatt gcccaattac aacaacaatc cttggcacat ctaaccatac aaaccatcgc 300
 aacgcaacag caacaacaat ttctaccagc actgagccaa ctagctgtgg tgaacctgt 360

cgctacttg caacagcagt tgcttgcac caaccactt gctctggcaa acatagttgc 420
 ataccaacaa caacaacaat tgcaacagtt tctaccagcg ctgagtcaac tagccatggt 480
 gaaccctgcc gcctacctac aacagcaaca actgatttca tctagccctc tcgctgtggt 540
 taatgcacct acatacctgc aacaacagtt gctgcaacag attgtaccag ctctgactca 600
 gctagctgtg gcaaaccctg ctgcctactt gcaac 635

<210> 13010
 <211> 658
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-101-Q1-K7-C8

<400> 13010

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 agcgagagag atctagtaga gaggctagct aggtggtcct cgaacgaaga tggtggcggt 120
 gttcagcggg caggtggtgg aggtgccggc ggagctggtg gcggcgggca gtcggacgcc 180
 gtcgccaag acgaaggcgt cgcagctggt ggggcgcttc ctggccgcct ccgagccggc 240
 cgtgtccgtg cagctcggcg accacggcca cctcgctac tccacacca accaggcgct 300
 cctccgcccc aggtcgttcg cggcgaagga cgaggtgttc tgctgttcg agggggtgct 360
 ggacaacctg ggtcgtctga gccagcagca cgggctgtca agcaaggcg ccaacgaggt 420
 gtcctcgtc atcgaggcct acaagacgct gcgcgaccgc gcgccctacc cggccagctt 480
 catgctcgcc cagctcaccg gctctacgc cttcgtctc ttcgacaagt ccaccaactc 540
 cctgctcgtc gcatccgacc ccgagggcag ggtgccgctc ttctggggga tcaccggcga 600
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<210> 13011
 <211> 691
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-101-Q1-K7-C9

<400> 13011

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 cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaatgata gcttcagtat 180
 gtgaaaaccc agctcttcaa ccctataggg tccaacaagc aatcgagca agcaacatac 240
 ctttatcacc cttgtttcaa caatcgccag ccctatcttt ggtgcagtca ttggtacaaa 300
 ccatcaaggc acagcagctg cagcaactcg tgctacctgt gatcaaccaa gtagctctgg 360
 caaacctttc tccctactat cagcaacaac aatttcttcc attcaaccaa ctatctacac 420
 tgaaccctgc tgcttatttg cagcaacaac tattaccatt cagccagcta gctactgcct 480
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 atttgagca gcaaatacta ctaccattta gccagctagc tgcagcaagc cgtgcttcct 600
 tcttgacaca gcaacagttg ctgcctttct accagcagtt tgcggctaac cccgcaaccc 660
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<210> 13012

<211> 350

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-101-Q1-K7-D1

<400> 13012

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 ctgacaaggt ttnagaattn ctgcaaaggc atgatcttga tcttatttgt ngagctcatc 180
 aggttgctga ggatgggtat gaattntttg ttgacagata gtttgtaacc atattctgtg 240
 tttccaatta ttgtggtgaa tttgataatg atggcgcaat gatgagtgtt gactaaactt 300
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<210> 13013

<211> 655

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-101-Q1-K7-D11

<400> 13013

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ncggccaaga tattttccat ccttatgctc cttgctcttt ctgcatgtgt tgctaacgcg 120
accatttttc ctcaatactc acaagctcct atagctgccc ttcttcccc ataccttcca 180
tcaatgaccg cttcagtttg tgaaaaccca gcccttcaac cctacaggct ccaacaagca 240
atcgcaacaa gcaacttacc tttatcacc cgtttctttc aacaatcgcc agccctatct 300
ttggtgcagt cattggtaca aaccatcagg gcacaacagc tgcaacaact cgtgctacca 360
gtgatcagcc aagtagctct ggcaaacctt tctccctact ctcagcaaca acaatttctt 420
ccattcaacc aactgtctac actgaacctt gctgcttatt tacaacaaca acaactacta 480
ccattcagcc agctagctac tgccctactct cagcagcaac aattttcttc atttaaccaa 540
ttggccgcac tgaacccctc tgcttatttc cagcagcaaa tactactacc atttggccag 600
ctagctacaa caagccccac ttcctttttt gaaacaacaa cattgcttcc gttct 655

<210> 13014

<211> 445

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 13014

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gccgtggtcc ctgtgggcac cgtcgggtca tctctttttt tttccaccnc ccacagaggg 180
gggggggtgg gtctggcctt cgctcacgcc aacggcttcc ggctcacctg gatcgccgtc 240
cacaccgact actcctggcg cgccaggttt gtcattcccg ccgtcttccc cctgcgcgcc 300
agggtcggtg cctttcacgc cgactactcc gggctcgcca ggttcgacgt tcccgccgtc 360
gacccccggt gtccctgggt gcgttgccc ctcgccgttg tcttcagggt cgacgtttcc 420
gtcgtcgact tccggtgcgc ctggg 445

<210> 13015

<211> 392
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-101-Q1-K7-D2

<400> 13015

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gaacagcatg aagatgggtca tcgttctcgt cgtgtgcctg gctctgtcag ctgccagcgc 120
ctctgcaatg cagatgccct gcccctgcgc ggggctgcag ggcttgtacg gcgctggcgc 180
cggcctgacg acgatgatgg gcgcggcgcg gctgtacccc tacgcggagt acctgaggca 240
gccgcagtgc agcccgctgg cggcgggcgcc ctactacgcc ggggtgtgggc agccgagcgc 300
catgttccag ccggtccggc aacagtgctt cctgcagcag atgaggatga tggacgtgct 360
gttctttgtg cagtatctgc atatgatgat gc 392
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<210> 13016
 <211> 611
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-101-Q1-K7-D3

<400> 13016

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catatggctg tggctgacaa atggattgac cttctcaagc aaagtgatga aacttgaag 180
atgggtgata ttgtgcacac actgacaaat aggaggtggt tagagaagtg tgtaacttat 240
gctgaaagtc atgatcaagc attagtcggc gacaagacta ttgcgttttg gttgatggac 300
aaggatatgt atgatttcat ggccctcgat agaccttcaa ctctaccat tgatcgtggg 360
atagcattac ataagatgat tagacttate acaatggggt taggaggaga gggctatctt 420
aatttcatgg gaaatgagtt tggacatcct gaatggatag attttccaag aggtccgcaa 480
agacttcaa gtggtgaagtt tattccaggg aataacaaca gttatgacaa atgtcgtcga 540
agatttgacc tgngtgatgc agactatctt aggtatcatg gtatgcaaga gtttgatcag 600
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gcaatgcaac a

611

<210> 13017

<211> 620

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-101-Q1-K7-D4

<400> 13017

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gggaacggga catgaccca aaatctaga tccttcctgc ccggccggcc gtgcccgtcg 120
acgcgtcgct cttgccggcc gcgcctcacc tacggcctgt cctgctccag ggggatcgga 180
tgcgccacag gctgctcgat ggtgctgtgg ggcttggggg acggctccct gatctggaac 240
cccggcttcg acttcgacga caaaattcta ggctttatga agggctacaa gcgcaccttt 300
aatctcgctt gcattgacca cagtggcaca ccgtagcatc cggcgaggac ctgcacgctt 360
gaaaccgacg acgaggccat atgctgggga attgcatatt gtgtcaaggg tggttcagaa 420
aaagagctaa aagcaatgca tttcttggcg agaagagagt gtgagttcca ccagaagatt 480
tccattgatt tctacaagga aggagatccc ttgaaaccag ctgtgacagg cgtcttagtg 540
ttcgtttcca cttcagatcc aattggcaac aagtactatc ttgggcctgt tccttgcagg 600
atatggcaag gcaaattgct 620

<210> 13018

<211> 818

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-101-Q1-K7-D5

<400> 13018

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cctcgcnntg cgagggcgcc gccnnntcca gtacaaaagc ggcngnngct gtggggctgc 180
cagnacaccc acnncgtttc aatctacccc gcctnnccgt tctattatgt ccgcnnnntc 240
cgttctattc tgcncnngcc gcagnhcagc agcccccgca gccattgnng caatnnaccc 300

cacnntcaac canncgcag nnctaagcnn nccgtgcnn agcangnntt cggaattcct 360
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 caggcagnng tggagnnccg ctgcnnaccg gtacccaagg cgaaacatac ggtngnntgg 600
 tectnnngca gtcccccttc cctgcagncn naccagcccc gcagnnggcg aagcctcnn 660
 cggcgcttga tttggcgcc ccaggtann ggcagcagc tttgacggcg aatgtgcggc 720
 cctgcaagct gcagcagnc aggtcccctg cccttgcaac gcagctngcc ggcggtgtct 780
 actactgagg aaactatgta ctgtagtaat aatgtaat 818

<210> 13019

<211> 594

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-101-Q1-K7-D6

<400> 13019

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 tagttggagg agatatgcag tttgcacttg cattggacac gaactcaggt cctcaccaga 120
 taagatcttg tgagggtgat gggattgaca ggttggaaaa attaatgatt gggggcagaa 180
 agcaggagaa agctttgaga aataggtgct ttggtggtag agttgctgca actacacaat 240
 gtattcttac ctcatatgct tgtcctgaaa ctcttcattc tcaaacacag tcctctagga 300
 aaaattatgc tgatgcaaac cgtgtatctg ctatcatttt gggcgagggc actggatctc 360
 agctctttcc tctgacaagc acaagagcta cgctgctgt acctgttgga ggatgttaca 420
 ggcttattga tatccctatg agtaactgct tcaacagtgg tataaataag atatttgtga 480
 tgagtcagtt caattctact tcgcttaacc gccatattca tcgtacatac cttgaaggcg 540
 ggatcaactt tgctgatgga tctgtacagg tattagcggc tacacaaatg cctg 594

<210> 13020

<211> 499

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-101-Q1-K7-D7

<400> 13020

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cttccattca accaactagc tgcattgaac tctgcttctt atttgcaaca acaacaacta 120
ccattcagcc agctacctgc tgcctacccc cagcaatttc ttccattcaa ccaactggca 180
gcattgaact ctctgctta ttacagcag caacaactac taccattcag ccagctagct 240
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gcgccctaacg ctggcacctt cttacaactg caacaattgc tgccattcaa ccaacttgct 360
ttgacaaacc cagcagcggt ctaccaacaa cccatcattg gtgggtgccct cttttagatt 420
tcttatgagt tatagttcaa taataaagtt ttttgtctga tgtttgtggc ttccagaaa 480
taagaaagta catttctag 499

<210> 13021

<211> 268

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-101-Q1-K7-D8

<400> 13021

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ggctaacccc gcaaccctct tacaactaca acaattgttg ccctttgtcc aacttgcttt 120
gacaaaccca gcagcctcct accaacaaca catcattggg ggtgccctct tttagattga 180
ttattagttg taattcaata ataaagtttt ttggatgatg tatgtggcca accagaaata 240
agaagttaca tttccagatt ctaatgtg 268

<210> 13022

<211> 565

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-101-Q1-K7-D9

<400> 13022

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tctacggggc tgtcgctgga acggactaca gggacaacca gctgcggttc agcctgctat 120
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gaccatacgg ggaggacgtc gtgttcgtct gcaacgactg gcacaccggc cctctctcgt 240
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tcccggagag attcaagtcg tccttcgatt tcactcgacgg ctacgagaag cccgtggaag 420
gccggaagat caactggatg aaggccggga tcctcgaggc cgacagggtc ctcaccgtca 480
gcccctacta cgccgaggag ctcatctccg gcactgccag gggctgagag ctgcacaaca 540
tcactgcgct caccggcatc accgg 565

<210> 13023

<211> 535

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-101-Q1-K7-E10

<400> 13023

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ccgccgccgc cgccgcgcag ggaggcggct gccccggcg gcttctggag gaggatgagc 180
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ctggaaagca agttcgagga ggcgttgcc ctcagctgct ggtcttcatg agcatccatc 360
catcatgggg aacggagaga cgcgagcgtg ccgccgaatc gaagcgacct ctctctaaa 420
cagccgtcct gtatatcttc tccgtgtatc aaaatccacc cttttgcttt agatttttgt 480
acatttgtaa tcgtcacatc cgcctcaaata tggtatatat attttagttt ggagc 535

<210> 13024

<211> 493

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-101-Q1-K7-E12

<400> 13024

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ctgccattca accaacttgc tttgacaaac ccaacagcat tctaccaaca acccatcatt 120
ggtggtgccc tcttttagat ttcttatgag ttatagttca ataataaagt tttttgtctg 180
atgtttgtgg cttgcgcgga aataagaaag tacatttcta gattcttaga nnnaaaaaaaa 240
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaatta aaaaaaacta 300
aaaccccaat aaaacaaaaa aatgtttttt tttttaaaat tcgcatcggt ttctactttc 360
cttacaacat ataaaaaaaa aaaaaaaaaa aaaaaggggg ggcccttttt tgggttcctt 420
ctttttaccc ggggtttctg ggggtttttt tttttttttg tgttccccta aaaaaaaaaac 480
cgggcccggg ttt 493

<210> 13025

<211> 582

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-101-Q1-K7-E2

<400> 13025

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cttgatgctg atgtgacaga cagtgttatt ggtgaaggat gtgttattaa aaactgcaag 180
ataaaccatt ctgtagttgg actccgatct tgcatatctg aagggtgctat catagaggac 240
agtttactaa tgggtgcgga ctactatgag acagaagctg ataaaaaact ccttgccgaa 300
aaaggtggca ttcctattgg tattgggaaa aattcatgca tcaggagagc aatcattgac 360
aagaatgctc gaattggaga caatgttaag atactcaatg ctgacaatgt tcaagaagct 420
gcaatggaga cagacgggta ctcatcaaaa ggtggaattg tcacagtgat caaggatgct 480
ttactcccta gtggaacagt tatatgaagt gaacgtgcga catgcagctg tgtgtctcga 540
cattcgacaa tgatcagcaa cctgttacca tgcgtgatct gc 582

<210> 13026
 <211> 655
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-101-Q1-K7-E4

<400> 13026

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tagtgccatt attccacagt tcttccctcc agttacttca atgggcttcg aacacccagc  180
tgtgcaagcc tacaggctac aacaagcgct tgcggcgagc gtcttacaac aaccaattgc  240
ccaattacaa caacaatcct tggcacatct aaccatacaa accatcgcaa cgcaacagca  300
acaacaattt ctaccagcac tgagccaact agctgtggtg aaccctgtcg cctacttgca  360
acagcagttg cttgcatcca acccacttgc tctggcaaac atagttgcat accaacaaca  420
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aaaccctgct gnctacttgc aacagctgct tccattcaac caactgactg tgctcg      655
  
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<210> 13027
 <211> 538
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-101-Q1-K7-E5

<400> 13027

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gggaccttct ttggcaacta caagccacgc actgatctgc caaatgtggt ggagctgtac  180
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aacaaggcgt tcgacctgat ggccaagggg gagggcatcc gctgcatcat ccgcatggag  300
aactagattt cgctgtctag tttgtgatct ggcttgggct tggggttaat aaaagaggca  360
  
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atgctagcct gccctttcga tgaggaggta catcacgct ggcgatggac cgcgcttgtg 420
 tgtcgcgttc agtttggctt ttgccaagca gtagggtagc ttcccgtgtc ggtaattata 480
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<210> 13028

<211> 424

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-101-Q1-K7-E6

<400> 13028

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 ctctaccagt accagctgcc cagctaccgc accaaccctt gtggcgtctc cgctgccatt 180
 ccgcctact actgattcat gatatttggg aaatctctc tatccatctc tctctatcta 240
 tatatgtaat aatgcagtaa gacgacacac attatcatgt gtggtatgac caataatata 300
 tgcattggtca taataaagtt ttggttttaa tgaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaaaaaaa 420
 taaa 424

<210> 13029

<211> 627

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-101-Q1-K7-E7

<400> 13029

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 ctcaaaagct cctatagctt cctttcttcc cccatacctt ccatcaatta tagcttcagt 180
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acaaaccatc agggcacaac agctgcagca actcgtgcta cctgtgatca accaagtagc 360
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 tacactgaac cctgctgctt atttgcagca acaactatta ccatttagcc agctagctac 480
 tgcctactct cagcaacaac aacttcttcc atttaaccaa ttggccgcac tgaaccccg 540
 tgcttatttg cagcagcaaa tactactgcc atttagcgag ctagctgcag caagtcgtgc 600
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<210> 13030

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-101-Q1-K7-E8

<400> 13030

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 gtgcttcctt cttgacacag caacagttgc tgcctttcta ccagcagttt gcggctaacc 180
 ccgcaaccct cttacaacta caacaattgt tgccctttgt ccaacttgct ttgacagacc 240
 cagcggcctc ctaccaaaa cacatcattg gtggtgcctt cttttagatt gcttattagt 300
 tgtaattcaa taataaagtt ttttgatga tgtatgtggc caaccagaaa taagaagtta 360
 catttccaga ttct 374

<210> 13031

<211> 626

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-101-Q1-K7-F10

<400> 13031

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 cggctgcggc tgccagccac cgccgccggt tcatctaccg ccgccggtgc atctgccacc 180
 tccggttcac ctgccacctc cggtgcatct cccaccgccg gtccacctgc cgccgccggt 240

ccacctgcc a ccgccgtcc atgtgccgcc gccggttcat ctgccgccgc caccatgcc 300
ctaccctact caaccgccc gccctcagcc tcatccccag ccacacccat gcccgtagcc 360
acagccgcac ccaagcccgt gccagctgca gggaacctgc ggcgttgga gcaccccgat 420
cctgggccag tgcgtcgagt tcctgaggca tcagtgcagc ccgacggcga cgcctactg 480
ctcgccctag tgccagtcgt tgcggcagca gtgttgccag cagctcaggc aggtggagcc 540
gcagcaccgg taccaggcga tcttcggctt ggtccttcag tccatcctgc agcagcagcc 600
gcaaagcggc ccagtcgcgg gggctg 626

<210> 13032

<211> 570

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-101-Q1-K7-F11

<400> 13032

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gccctactgg ctataatagg gattacctgt tctcaatgga gaaggcatta gccagcatta 240
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caaaggagac caagatcact ggtgccaatg cttccctgaa atcacatgcc cctcttgtagc 360
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tggacctcta ctcggaatct acttcagct cttgcatgtt tgtggccatc atgtactgat 480
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<210> 13033

<211> 561

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-101-Q1-K7-F2

<400> 13033

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<210> 13034

<211> 634

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-101-Q1-K7-F3

<400> 13034

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<210> 13035
 <211> 600
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-101-Q1-K7-F4

 <400> 13035

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tactggccta cnntctcagc agcaacaatn nttcttccat tttanaacca attggnnccg   180
cactgnanna cccctctggn cttatttcnn cagcagcaaa tactanctac nncatttggc   240
cagctagcta caacaaggcc cnncacttcc tttttgaaac aacaacaatt gncttccggt   300
ctaccagcag tttgtggcta accccgcaac cctcttacia ctgcaacagt tgctgccctt   360
tgtccaactt gctttgacaa acccagcagc cttctaccaa caacacatca ttggcggtgc   420
catcttttag attgcttatt agttgtaatt caataatgaa gttttttggc tgatgtatgt   480
ggcctcctag aaataagaag ttacatttcc aaattctaatt gtgctattgg cctgcaaggg   540
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<210> 13036
 <211> 601
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-101-Q1-K7-F6

 <400> 13036

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cttgcccatg ctgatgaagt tgtggaggaa agaattgctg acgatgatgt tattctgggtg   180
aaaggcacia agaaccaccag cgcggtctct ataatactta ggggcgcaaa tgactacatg   240
cttgatgaga ttgaacggtc cttgcatgat gccctgtgca ttgtgaagag aaccctggaa   300
tcaaatatgg ttgttgctgg ggggtggtgca gttgaagctg cgctgtcagt ttatctggag   360
  
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aaccttgcaa caaccctggg ttctcgggaa caattggcaa ttgctgaatt tgctgagtct 420
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 gcaaagctta gggcatatca tcatactgct caaacaagg cgcacaagca acattattca 540
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<210> 13037

<211> 638

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-101-Q1-K7-G1

<400> 13037

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 aatgctcaca agctcctata gcttcccttc ttcccccata ccttccatca attatagctt 180
 caatatgtga aaaccagct cttcaaccat ataggcttca acaagcaatc gcagcaagca 240
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 tagctctggc aaacctttct ccctactctc agcaacaaca atttcttcca ttcaaccaac 420
 tgtctacact gaacctgct gcttatttgc agcaacaact attaccattt agccagctag 480
 ctactgcta ctctcagcaa caacaacttc ttccatttaa ccaattggcc gcactgaacc 540
 ccgctgctta ttgagcagc caaatactac taccatttag ccagctagct gcagcaaacc 600
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<210> 13038

<211> 666

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-101-Q1-K7-G10

<400> 13038

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 gtgcaagcct acaagctaca acaagcgctt gcggcgagcg tcttacaaca accaattaac 180
 caattgcaac aacaatcctt ggcacatcta accatacaaa ccatcgcaac acaacagcaa 240
 caacagttcc taccagcact gagccaacta gatgtggtga accctgtcgc ctacttgcaa 300
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 tacctacaac agcaacaact gctttcatct agccctctcg ttgtgggtaa tgcacctaca 480
 tacctgcaac aacaattgct gcaacagatt gtaccagctc tgactcagct agctgtggca 540
 aaccctgctg cctacttgca acagctgctt ccattcaacc aactgactgt gtcgaactct 600
 gctgcgtagc tacaacagcg acaacagtta cttaatccac tagcagtgcc taaccattg 660
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<210> 13039

<211> 608

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-101-Q1-K7-G11

<400> 13039

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 gtgatggtga tgggagcctt catccctggt ctgaggcgca agtacgcgtt ccaagagtac 180
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 gtgttggagg cgatggccac gttcgtcggc caggtctccg tgctctccct catcgcgctt 540
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<210> 13040
<211> 509
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-101-Q1-K7-G3

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caatcccaac agccctaggg cacttgtggt agaggaatt ctggattcca tttcggctgg 360
tattctgata tacatggcct tggtagacct catcgagct gattttctca gcaagaggat 420
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<210> 13041
<211> 476
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-101-Q1-K7-G4

<400> 13041

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ggtgaaccct gccgccttcc tacaacagca acaactgctt tcatctatcc ctctcgtggg 180
gggtggatgc acctacatac ctgcaacaac aattgctgca acagattgta ccagctctga 240
ctcagctagc tgtggcaaac cctgctgcct acttgcaaca gctgcttcca ttcaacctac 300
tgactgtgtc gaactttgct gcgtacctac aacagctaca acagttactt aattcactag 360
cagtgcctaa ctattgggtt acttgtcttt cttcagcagc agcaattgct accatacagc 420
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<210> 13042

<211> 600

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-101-Q1-K7-G5

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acaactactt tcatctagcc cgctcgggt gggcaatgca cctacgtacc tacaacaaca 240
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gcaaccatc gttggagggt ccacttttta gattacatat gagatgtact cgacaatgg 540
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<210> 13043

<211> 622

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-101-Q1-K7-G6

<400> 13043

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caacaacaac taccattcag ccagctacct gctgcctacc cccagcaatt tcttccattc 480
aaccaactgg cagcattgaa ctctcctgct tatttacagc agcaacaact actaccattc 540
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<210> 13044

<211> 633

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-101-Q1-K7-G7

<400> 13044

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tcacaacaat acctctctcc agtgatagcc gcgagatttg aatacccatc tatacaatcc 180
tacaggctac aagaggccat cacagcaagc atcttacggc cgttagcatt gaccgtccaa 240
caaccatatg ccctattgca acaaccatcc ttagtgaatc tgtatctcca aagaatcaca 300
gcacaacaac tacaacaacg gttgcttcca acaattaatc aagtagttgc agcgaacctt 360
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gccatcttat tgcagcaaca gttgctgcca ttccgtctac aagttgttgc aaacattgct 540
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<210> 13045

<211> 655

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-101-Q1-K7-G9

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aatatcttcc gaggttaggt atgagtatca aattttcagg gcggtacgcg gacgctgcta 420
gcttgtgatt ataaatatat aaatatatat gttgtgtatc tatggcaatt catataagct 480
accagttgag cccccattg ttactgtttg attattcttt ttccgtaata ttcttttacc 540
tcctgtgtag agttggactt agagatcttt ttgcagtctg ttcttccaac tggcccaaaa 600
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<210> 13046

<211> 158

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-101-Q1-K7-H1

<400> 13046

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<210> 13047

<211> 637

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-101-Q1-K7-H11

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tategccctt gttgtttcaa caatcaccag ccctatcttt ggtgcagtca ttggtacaaa 180
ccatcagggc acaacagctg cagcaactcg tgctacctgt gatcaaccaa gtagctctgg 240

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<210> 13048

<211> 122

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-101-Q1-K7-H2

<400> 13048

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 aa 122

<210> 13049

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-101-Q1-K7-H3

<400> 13049

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 acaatgctca caagctccta tagcttactt tcttccccca ttctatcac cagcgggtgtc 180
 ttcagtatgt gaaaacccaa ttctttaacc ctactagatc caacaggcaa ttttagctgg 240
 catattacct ttatcaacct 260

<210> 13050

<211> 458

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-101-Q1-K7-H4
 <400> 13050

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<210> 13051
 <211> 150
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 13051

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<210> 13052
 <211> 588
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-101-Q1-K7-H6
 <400> 13052

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tcagcaaaga gtcgtttacg catccctggt aagggtcgca tacagctggt ggtaagcaac 180
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<210> 13053
<211> 633
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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<400> 13053

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<210> 13054
<211> 270
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-101-Q1-K7-H8

<400> 13054

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gattcgagtt tggtaacaata ttatcgtgaa cctatatatt atatatatgt taattatagt 240
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<210> 13055

<211> 116

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-101-Q1-K7-H9

<400> 13055

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<210> 13056

<211> 575

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-102-Q1-K7-A1

<400> 13056

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tcattattcc acaatgctca cttgctccta gtgccattat tccacagttc ctcctccag 180
ttacttcaat gggcttcgaa caccagctg tgcaagccta caggctacaa caagcgcttg 240
cggcgagcgt cttacaacaa ccaattgccc aattacaaca acaatccttg gcacatctaa 300
ccatacaaac catcgcaacg caacagcaac aacaatttct accagcactg agccaactag 360
ctgtggtgaa ccctgtcgcc tacttgcaac agcagttgct tgcacccaac ccacttgctc 420
tggcaaakat agttgcatac caacaacaac aacaattgca acagtttcta ccagcgctca 480

gtcaactagc catggtgaac cctgccgtct acctacaaca gcaacaactg atttcatcta 540
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<210> 13057

<211> 652

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-102-Q1-K7-A11

<400> 13057

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gcggccacgt caagtacata cgctgtcca actgcgcca gtgctgtcca aaggataagg 180
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gtgagcccc gcagcgtttc aggcgccggg atgatggccc aaggccaggt cagggcccac 420
cgcgcccagg tgctgtgcc acagcagctc cccctgctgc cgctcctcgt acctaagttc 480
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aaaaccaagt actgtacccc cttgatgtca aaaatttagc acaatttggg gggtcgttct 600
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<210> 13058

<211> 133

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-102-Q1-K7-A9

<400> 13058

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ttgtcggtgc ttt 133

<210> 13059
 <211> 665
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-102-Q1-K7-B1

<400> 13059

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cgcgaagctc acccccacgc aggtcaagga tctcaaggag caaccagggtg ttctccaggt 360
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tgtatggcac aggtctgacg aatgtgtata gtacagtact atgtaagaat aagggaacgga 540
tcgtctatat actgctttgc gcatgctcag ccctgttcta aagctggaat gcaccaatgc 600
gtatgttttc aaacaatgac aagtatgcta tctttgtttg ctgctaaaaa aaaaaaaaaag 660
ggcggg 665
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<210> 13060
 <211> 649
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-102-Q1-K7-B11

<400> 13060

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gcatccaacc cacttgctct ggcgaaacgta gttgcaaacc agcaacaaca acagctacaa 180
caggtttctgc caacgctcag tcaactagcc atggtgaacc ctgccgccta cgtacaacaa 240
caacaactgc tttcatctag cccgctcgct gtgggcaatg cacctacata cctgcaacaa 300
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caattgttgc aacagattgt accagctctg actcaactag ctgtggcaaa cctgtttgcc 360
tacttgcaac agctgcttcc attcaaccaa ctgactctgt cgaactctgc tgcgtaccta 420
caacagcgac aacagttact taatccattg gtagtggcta acccattggc cgccgccttc 480
ctacagcagc aacaattgct gccatacaac cagttctctt tgatgaatcc tgtcttgtcg 540
aggcagcaac ccatcgttgg aggtgccatc ttttagatta catatgagat gtactcgata 600
atggtgccct cataccgacg tgtgtttcct agaaataatc aatatattg 649

<210> 13061
<211> 661
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-102-Q1-K7-B7

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gcttaacttc acccccttga tgtatcgtct ttcttggttg cctcgttcgt tactcttccc 180
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cagagacctt gctgtggatt ggtagctttc ttagctgagc agccgaggca actgaagcac 480
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gctatgttta ttgttgcatc atcaactatt gatgctgccc tctgctacat gctgggcctg 600
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t 661

<210> 13062
<211> 314
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-102-Q1-K7-C1

<400> 13062

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ctcacaagct cctatagctt cccttggttac cccatacctt tcatcaatga tagcttcagt 180
atgtgaaaac ccagctcttg aaccctattg gcttcaacaa gcaatcgag taagcaacat 240
acctttatta cccttggttg aacaattgac agtcctatct ttggtgcaag gattggtaca 300
aaccttaaag gata 314

<210> 13063

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-102-Q1-K7-C11

<400> 13063

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gcgttttagcg tccggggcgcg cgacatggtg gcgttcccggt ccagctcgcg ctctgtgacg 180
caggcggtga acgggtccca ccggttcgtg atccatggct actctttctc ttaggtcatt 240
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<210> 13064

<211> 523

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-102-Q1-K7-C12

<400> 13064

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ggtgtaatct gtgctgggac tctctatggt gcaaacctgg gtgactcacg tgcagttctt 120
ggaaggcttg ttaaggcaac tggagaggtc gtggccatgc agttgtcatc ggagcacaat 180
gcgtgctatg aggaagttag acaagaactg cagtcatcac atcctgacga tccacatatt 240

gtggttctca aacacaatgt ttggcgagtg aagggtctca tccagatctc aagatctatt 300
gaagatgtat gtctaaagaa accagagttc aacaaagaac cacttcacag caagtttcgg 360
ctttgagaaa cttttcatag gccgatcctt agttctgaac ctcaaattac tgtacattga 420
attcagccaa atgatcaatt tgttatattt gcttctgatg gtctatggga gcaccttcat 480
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<210> 13065

<211> 590

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 13065

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caacaacggt tgcttccaac aattaatcaa gtagttgcag cgaaccttgc tgcttacctt 180
cagcaacaac aatttcttcc attcaatcaa ctagctgggg tgaaccctgc tgcttacttg 240
caggcacaac agctactacc attcaaccaa cttgtcgggg gccctgctgc catcttattg 300
cagcaacagt tgctgccatt ccgtctacaa gttgttgcaa acattgctgc tttcttgcaa 360
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caacaacaat tgctgccatt ctaccacag gatgtggcaa acattgtcgc cttcttacia 480
caacagcaat tgctgccatt tagccaactc gctttgacga atoctaccac cttattgcat 540
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<210> 13066

<211> 589

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-102-Q1-K7-C3

<400> 13066

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taccaagata ttatccctct ttgcgcttct tgcccttttt gtgagcgcaa caaatgcgtt 120

cattattcca caatgctcac ttgctcctag tgccattatt ccacagttcc tccctccagt 180
tacttcaatg ggcttcgaac acccagctgt gcaagcctac aggctacaac aagcgcttgc 240
ggcgagcgtc ttacaacaac caattgcca attacaacaa caatccttgg cacatctaac 300
catacaaacc atcgcaacgc aacagcaaca acaatttcta ccagcactga gccaaactagc 360
tgtggtgaac cctgtcgcct acttgcaaca gcagttgctt gcatccaacc cacttgctct 420
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<210> 13067
<211> 450
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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<400> 13067

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acccatcatt ggtggtgccc tcttttagat tgcttatgag ttatagttca ataatgaagt 180
tgtttgggtg atgtttgtgg cgtcccagaa ataagaaagt acatttctag attctaaaaa 240
aaaataaaat tttttaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagaaa 300
aatannaaaa aaaataaaaa ataaaaatta aaaaaatfff taataattta tatattttta 360
gatggtttga gttttttttt tttttgtgag tgtagaaaaa aaaaaaaaaa aaaaaagag 420
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<210> 13068
<211> 621
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-102-Q1-K7-C5
<400> 13068

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tcattattcc acagtgtctca cttgctccta gtgccagtat tccacagttc ctcccaccag 180
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<210> 13069

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-102-Q1-K7-C8

<400> 13069

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ctctgcgagc cttgcctatc agtcctattc tctgggtcac gatcctgctc ctttgcaggc 180
ggggggaggg tgtgcctcaa gcacaacagt catgatgcct cctgctggaa gatctgctcg 240
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<210> 13070

<211> 645

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-102-Q1-K7-C9

<400> 13070

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 gcaacaggca tcttaccatt atcacccttg ttctccaac aaccgtcagc cctattacag 180
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<210> 13071
 <211> 364
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-102-Q1-K7-D1

 <400> 13071

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 aacc 364

<210> 13072
 <211> 165
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-102-Q1-K7-D10

<400> 13072

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<210> 13073

<211> 595

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-102-Q1-K7-D11

<400> 13073

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aattttcttg ctttcaacca actgacagca ttgaactctc ctgctttttt acagcagcaa 540
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<210> 13074

<211> 478

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-102-Q1-K7-D2

<400> 13074

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tcctcaatac tcacaagctc ctatagctgc ccttcttccc ccataccttc catcatatga 180
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gccaaagtagc tctggcgaac ctttctgcct actctcagca acaacaatgt cttgcattca 420
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<210> 13075

<211> 627

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-102-Q1-K7-D4

<400> 13075

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caatgtgtga aaaccaatt gttcaaccct acaggatcca acaggcaatc gcaacaggca 240
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<210> 13076

<211> 625

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-102-Q1-K7-D5

<400> 13076

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<210> 13077

<211> 575

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-102-Q1-K7-D7

<400> 13077

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<210> 13078
<211> 610
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-102-Q1-K7-D9

<400> 13078

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ccctcaatgc tcacaagctc ctatagcttc ccttcttccc ccataccttc catcaattat 180
agcttcaata tgtgaaaacc cagctcttca accatatagg cttcaacaag caatcgcagc 240
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ccaagtagct ctggcaaacc tttctcccta ctctcagcaa caacaatttc ttccattcaa 420
ccaactgtct aactgaacc ctgctgctta tttgcagcaa caactattac catttagcca 480
gctagctact gcctactctc agcaacaaca acttcttcca ttttaaccaat tggccgcact 540
gaaccccgct gcttatttgc agcagcaaat actactacca tttagccagc tagctgcagc 600
aaaccgtgct 610

<210> 13079
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-102-Q1-K7-E1

<400> 13079

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attattgctt tcaagaataa ggacaacctt ggaggagata agcttgctac tgtttgaaga 180
tattgtttgt cagcattggg ccacatatgg acaccattat tacacacgct atgactatga 240
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actttctgat gttaacaagt 320

<210> 13080
 <211> 694
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-102-Q1-K7-E10

 <400> 13080

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g caat gct cg ca agct ccta tag ctt ccct tct tcccc cg tac ct ctc ac cag cggt gtc 180
tt cggt atgt gaaa acccaa tt ctt caacc ctac aggatc caac aggcaa tcac agct gg 240
cat cttacct ttat caccct tgt tct ccca acaat catca gcc ctattac atc agttacc 300
ttt ggt gcat ttatt ggcac aaaacatcag ggcacaacaa ctacaacaac ttgt gctagc 360
aaac cttgct gcct actctc agcaacagca gttt cttcca ttcaaccaac tagctgcatt 420
gaact ctgct tctt atttgc aacaacaaca actaccattc agccagctac ctgctgccta 480
cccc cagcaa ttt cttccat tcaaccaact ggcagcattg aactctcctg cttatttaca 540
gcag caacaa ctactacat tcagccagct agctgggtgtg agccctgcta ctttcttgat 600
acaaccacag ttgttgccgt tctaccagca cgctgogcct aaacgctgca ccctcttaca 660
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<210> 13081
 <211> 574
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-102-Q1-K7-E2

 <400> 13081

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gttctttgtc attaaatcgt acagcgagga tgacatccac aagagcgtaa agtacaatgt 180
gtgggcaagc acaaccaacg gaaacaagaa gcttgatgct gcttaccaag aagctcagtc 240
  
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aaagggatct gcatgcccta tattcttggt cttctcagtg aatacaagtg ggcagtttgt 300
 tgggtgttgct gaaatgactg gcgccgttga ttttgagaaa accctagagt attggcaaca 360
 ggacaagtgg aacggctcct tctctgttaa gtggcacatt gtcaaggacg tgcccaacaa 420
 tattctcaag cacatcatcc tggagaacaa tgagaacaag cctgtcacia acagccgtga 480
 cactcaggag atacgcctcg aacaaggcct tcagatgctc aagatattca aagatcatgt 540
 cagcaaaact tncatcctcg acgactttgc cttc 574

<210> 13082

<211> 592

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-102-Q1-K7-E3

<400> 13082

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 ttttcccgca atgctcacia gctcctatag ctcccttct tgccccgtac ctctcaccag 180
 cgggtgtcttc ggtgtgtgaa aaccaattt ttcaacctta caggatccaa caggcaatcg 240
 cagctggcat cttaccttta tcaccttgt tcttgcaaca atcatcagcc ctattacagc 300
 agttaccttt ggtgcattta ttggcaciaa acatcagggc acaacaacta caacaacttg 360
 tgctagcaaa ccttgctgtc tactctcagc aacagttgtt tttttcattc aaccaactag 420
 ctgcattgaa cnttgctttt tatttgcaac aacaacaact accattcagc cagctacctg 480
 ttgtctaccc ccaacaattt gtttcattta accaactggc agcattgaac tctgtgtgctt 540
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<210> 13083

<211> 587

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-102-Q1-K7-E4

<400> 13083

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 caggggttcac aatgctgctc ttactgcaca accagctttg gtgcaggatg agaggaagct 180
 gcttgagaaa atcaatattc tttgtctgat ggagataatc tttagtccgc catctgaaga 240
 tagaactatt ccattaagtg ttattgctga gcagactaag ctttcaatca gtgatgtgga 300
 gtatctcctt atgaagagcc tctcggttca tcttattgag ggaataattg atgaagtgga 360
 cagtacagtt catgtttcgt gggccagcc cagagtgcctt ggaatcccac aggttaaggc 420
 tttgcgcgac cgctggatg cctgggttg aaaggtgcat actacattgc tttcagttga 480
 ggcagaaaca cctgatcttg ttgctgccta atttagcacc tgttacactt ccgcgagagg 540
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<210> 13084

<211> 617

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-102-Q1-K7-E5

<400> 13084

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 attccacagt gctcacttgc tcctagtgcc attattccac agttcctccc accagttact 180
 tcaatgggct tcgaacatcc agccgtgcaa gcctacaggc tacaactagc gcttgccggc 240
 agcgccttac aacaaccaat tgcccaattg caacaacaat ccttggcaca tctaacccta 300
 caaaccattg caacgcaaca acaacaacaa caacagtttc tgccatcaact gagccaccta 360
 gccgtggtga accctgtcac ctacttgcaa cagcagctgc ttgcatccaa cccacttgct 420
 ctggcgaacg tagctgcata ccagcaacaa caacagctgc aacagtttat gccagtgtc 480
 agtcaactag ccatggtgaa ccttgccgtc tacctacaac tactttcatc tagcccgtc 540
 gcggtgggca atgcacctac gtacctacaa caacagttgc tgcaacaaat tgtaccagct 600
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<210> 13085
 <211> 622
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-102-Q1-K7-E6

<400> 13085

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tcattctaccg ccgccggtgc atctgccacc tccggttcac ctgccacctc cgggtgcatct 180
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gccggttcat ctgccgccgc caccatgcca ctacctact caaccgcccc ggctcagcc 300
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tcagtgcagc ccgacggcga cgccctactg ctgcctcag tgccagtcgt tgcggcagca 480
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<210> 13086
 <211> 503
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-102-Q1-K7-E7

<400> 13086

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gccgtctgcc aaggcgaggt cgagcggcag aggtcaggg acctgcagtg ctggcaggag 180
gtccaggaga gcccgtcga cgcgtgccgc caggtcctcg accggcagct aaccggcggc 240
ggcggcgggc ggcggcttgg cccgttcgg tggggcaccg ggctccggat gcggtgctgc 300
cagcagctcc aggacgtgag ccgcgagtg cgctgcgcc ccatccggag catggtcagg 360

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ggatacgagg aggccatgcc gccgctggag aaaggctggt ggccatgggg gcggtntttt 420
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<210> 13087
 <211> 645
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-102-Q1-K7-E8
 <400> 13087

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 ctcaaaagct cctatagctt cctttcttcc cccatacctt ccatcaatga tagcttcagt 180
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 aaccatcaag gcacagcagc tgcagcaact cgtgctacct gtgatcaacc aagtagctct 360
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<210> 13088
 <211> 654
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 13088

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agcgccacct ccacgcatac aagcggcggc tgcggctgcc agccaccgcc gccggttcat 180
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 ccgcccgtcc acctgccgcc gccggtccac ctgccaccgc cgggtccatgt gccgccgccg 300
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 acctgcggcg ttggcagcac cccgatcctg ggccagtgcg tcgagtttct gaggcattcag 480
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<210> 13089
 <211> 371
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-102-Q1-K7-F1
 <400> 13089

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<210> 13090
 <211> 279
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-102-Q1-K7-F11
 <400> 13090

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gaatttgatg cgcttgtagc ttttcttttg tcgattgggg gcgggggatg aatctgtcct 180
cttgtcacat ttttacttct aaagtgcagc ttttgaaaag gctgttgtgg ggtgctcttt 240
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<210> 13091

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-102-Q1-K7-F3

<400> 13091

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aaatacgaga ttgctgaatg gtaactctat ggattcagct gatcggagac cacgaacaca 180
aatgaatgga aagcaaattg ataattaaag ccaagttgat agtgaaactg agaaagcatg 240
aatatactct gaaggagggg gttatgataa ctaaaagcta tttaaacagc tgaggtccct 300
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<210> 13092

<211> 617

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-102-Q1-K7-F4

<400> 13092

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catcagccct attacagcag ttacctttgg tgcatttatt ggcacaaaac atcagggcac 180
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cattcagcca gctatctgct gctaccccc agcaatttct tccattcaac caactgacag 360
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gtgtgagccc tgctaccttc ttgacacaac cacaattggt gccgttctac cagcacgctg 480
 cgcctaacgc tggcaccctc ttacaactgc aacaattgct gccattcaac caacttggct 540
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<210> 13093
 <211> 641
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-102-Q1-K7-G10
 <400> 13093

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<210> 13094
 <211> 527
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-102-Q1-K7-G11
 <400> 13094

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gataacaaca ttcagaaata ctgagattga taaatggcag aggaaaatac aggtgacaac 180
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<210> 13095
 <211> 84
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-102-Q1-K7-G12
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<210> 13096
 <211> 115
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-102-Q1-K7-G2
 <400> 13096

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 aataaagttt tttgtctgat gtttgtggct tcccagaaat aagaaagtca tttct 115

<210> 13097
 <211> 559
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-102-Q1-K7-G8
 <400> 13097

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gatactggtg gacgtgcagc tccctcaagt acagcatgag caaaaagata agccggtcat 180
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caagatgaac cgcgtccaga atccgggaca ggctgccatg aatccaaatg tgagccggga 300
gctggccccg cgcgcacagg tggagcacct gagaaaggat atggatctgg ccaacaagaa 360
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<210> 13098
<211> 559
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-102-Q1-K7-G9
<400> 13098

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ctcgggaggg ggccacggc 559

<210> 13099
<211> 382
<212> DNA

<213> Zea mays
<223> Clone ID: LIB3061-102-Q1-K7-H10
<400> 13099

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gtccttcag gttcaattgt actgctgcat gcctgtgctc acaaccctac tggagtggag 180
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<210> 13100
<211> 299
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-102-Q1-K7-H12
<400> 13100

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ctcgtcgtgt gttgaagcgt tcgatcgtcg gtctagtagt gtgcctgtgt gcagcggcgt 180
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<210> 13101
<211> 507
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-102-Q1-K7-H2
<400> 13101

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cttgcgcttc ttgccctttt agtgagcgca acaaatgcgt tcattattcc acagtgtctc 120

cttgctccta gtgccagtat tccacagttc ctcccaccag ttacttcaat gggcttcgaa 180
 catccagccg tgcaagccta caggctacaa ctagcgcttg cggcgagcgc cttacaacaa 240
 ccaattgccc aattgcaaca acaatccttg gcacatctaa ccctacaaac cattgcaacg 300
 caacaacaac aacaacagtt tctgccatca ctgagccacc tagccgtggg gaaccctgtc 360
 acctacttgc aacagcagct gcttgcatcc aaccacttg ctctggcgaa cgtagctgca 420
 taccaggaac aacaacagct gcaacagttt atgccagtgc tgaaacaact agccatgggg 480
 aaccctggcg tcttacctac aactact 507

<210> 13102
 <211> 372
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-102-Q1-K7-H4

 <400> 13102

cttctatcag taccatcaat catcattcat cttagtagta taggcaccaa atcaaactcg 60
 caacatcaat tatctaactc caaaaacat gaagctgggtg cttgtgggtc ttgctttcat 120
 tgcttttagta tcaagtgttt cttgtacaca gacaggcggc tgcagctgtg gtcaacaaca 180
 aagccatgag cagcaacatc atccacaaca acatcatcca caaaaacaac aacatcaacc 240
 accaccacat catcaccagc agcagcaaca ccaacaacaa caagttcaca tgcattccaca 300
 aaaacatcag taacaacaag aagttcatgt ttaacaacaa caacaacaac cgtagcacca 360
 ccaccaacta ca 372

<210> 13103
 <211> 476
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-102-Q1-K7-H9

 <400> 13103

caactagcaa catagtaaag cacaatagtg taccaacaat ggcagccaaa atattttgcc 60
 tccttatgct ccttgggtctt tctgcaagtg ctgtacggc gaccattttc ccgcaatgct 120
 cgcaagctcc tatagcttcc cttcttcccc cgtacctctc accagcgggtg tcttcgggtg 180

gtgaaaaccc aattcttcaa ccctacagga tccaacaggc aatcgagct ggcatcttac 240
ctttatcacc cttgttcctc caacaatcat cagccctatt acaacagtta cttttggtgc 300
atattattggc acaaaacatc agggcacaac aactacaaca acttgtgcta gcaaacttg 360
ctgcctactg tcaacaacag cagttttcttc cattcaacca actaggttca ttgaactctg 420
cttggtattt gcaacaacaa caactaccat tcaggcaggt acctagtggc tacccc 476

<210> 13104

<211> 650

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-098-Q1-K7-A1

<400> 13104

cagcaagcaa catagaaagt agaatccatt agcaacaata gagcaacaat ggcgaccaag 60
atattttccc tccttatgct ccttgctctt tctacatgtg ttgctaacgc gacaattttc 120
cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaattata 180
gcttcagtat gtgaaaaccc agctcttcaa ccatatagge ttcaacaagc aatcgagca 240
agcaacatac ctttatcgcc cttgttggtt caacaatcac cagccctatc tttggtgcag 300
tcattggtac aaaccatcag ggcacaacag ctgcagcaac tcgtgctacc tgtgatcaac 360
caagtagctc tggcaaacct ttctccctac tctcagcaac aacaatttct tccattcaac 420
caactgtcta cactgaaccc tgctgcttat ttgcagcaac aactattacc atttagccag 480
ctagctactg cctactctca gcaacaacaa cttcttccat ttaaccaatt ggccgcactg 540
aaccocgctg cttatttgca gcagcaaata ctactgccat ttagcgagct agctgcagca 600
agtcgtgctt ccttcttgac acagcaacag ttgctgcctt tctacaagca 650

<210> 13105

<211> 614

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-098-Q1-K7-A10

<400> 13105

gcgaagcgta cnagcaacga ccnaacacca agggcgacca agnnaagagc ccncnngcg 60
ccgcggggccc nnnnagngag cgcaacaaan gcgnnccatta nnccacagng cccaccngcc 120
ccaagggcca nnannccaca gnncccccca ccagnnacn caaggggcn cgaacatcca 180
gggggggcaag cctacaggct acaactagcg cttgcggcga ggccttaca acaaccaatt 240
gcccattgc aacaacaatc cttggcacat ctaaccctac aaaccattgc aacgcaacaa 300
caacaacaac aacagtttct gccatcactg agccacctag ccgtggtgaa ccctgtcacc 360
tacttgcaac agcagctgct tgcattccaa ccacttgctc tggcgaacgt agctgcatac 420
cagcaacaac aacagctgca acagtttatg ccagtgtca gtcaactagc catggtgaac 480
cctgcctct acctacaact acttttatct agcctgctcg cgggtgggcaa tgcacctacg 540
tacctacaac aacagttgct gcaacaaatg taccagctct gactcagcta gctgtggcaa 600
accctgctgc ctac 614

<210> 13106
<211> 311
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-098-Q1-K7-A11
<400> 13106

gnngaattca ggagcaaaaa gagagcagca agggcgggcc aagaaaganc caaccngaag 60
cagcgggcnc gggcggcagg gggggccaac gcgaccangg ngccncaaga cgcacaagcg 120
ccnanagccg cccgncaagc cccagaccgn cgagcaagga cgcngcaga aggggagggg 180
ggggggggnc aaccncaag gagccagcaa gcaaacgcaa caagcaacgn accgacagca 240
caccagggcg gggaacaagc gccagcccga gcgggggggc agggaggggn acaaaccacc 300
agggcagagc a 311

<210> 13107
<211> 576
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-098-Q1-K7-A2

<400> 13107

aggaaaatgt aggctgctgt cagtatttgc actgtgaatt tccatgataa ggagcatgga 60
actctactgg ctattggcac tgccaagggg ttgcagttct ggccaaggag gacccttgct 120
ggtggattca tccacatata taagtttgtg gatgaaggga ggtcacttga acttctacac 180
aagacacagg tggaggaagt acctcttgca ttgtgccaat tccagggggcg attacttgca 240
ggtgttggtt cagtgtcag attatatgat ctggggaaaa gaaaattgct cagaaaatgt 300
gaaaacaagc tttttccgag gacattagt tctattcata cctaccgtga taggatctat 360
gttggcgata tgcaagagtc atttcactat tgcaagtaca gacgagatga aaaccaactc 420
tatatatattg ctgatgacag tgttcccagg tggcttācaa cagcacaaca catagatttt 480
gacactatgg ctggagcaga taagtttggg aatatatatn ttgctcgtct tcctcaggat 540
atctcagatg agattgaaga agacccaact ggaggc 576

<210> 13108

<211> 570

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-098-Q1-K7-A3

<400> 13108

gaaacacacc aagcgaagcg cactagcaac aacctaacaa caatggctac caagatatta 60
tccctccttg cgcttcttgc gctttttgcy agcgcaacaa atgcgtccat tattccacaa 120
tgctcacttg ctctagtct cattattcca cagttcctcc caccaggggc ttcaatggcc 180
ttogaacacc cagctgtgca agcctatagg ctacaacaag cgattgcggc gagcgtctta 240
caacaaccaa ttgcccaatt gcaacaacaa tccttggcac atctaacaat acaaaccatc 300
gcaacgcaac agcaacaaca gttcctacca gcaactgagcc acctagccat ggtgaaccct 360
gtcgccact tgcaacagca gctgcttgca tccaaccac ttgctctagc aaacgtagtt 420
gcaaaccagc aacaacaaca actgcaacag tttctgccag cgcttagtca actagccatg 480
gtgaaccctg ccgcctacct acaacagcaa caactgcttt tatctagccc gctcgtgtg 540
gccaatgcac ctacatacct gcaacaagaa 570

<210> 13109

<211> 652
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-098-Q1-K7-A4

<400> 13109

gaaaggtgtc tnatctgnng aaggtgttga ggctaaaata tggcaggtcc ctgaaattct 60
 ctctgaagaa gtgcttgaa agatgggccc gccccctaag cccgacgtgc cagtcacac 120
 accgcaggaa cttgcagagg ctgacggtat cctctttggg tttccgacaa ggttcggaat 180
 gatggcagct cagatgaagg cggtcttcga tgccaccggt gggctctgga gggagcagag 240
 cctcgctggc aagcctgccg gcatgttctt cagcactgga acccaggggtg gtggccaaga 300
 gactacaccg ctgacggcga ttaccagtt gacgcaccac ggcaggtgt ttgtgcccg 360
 gggctacacc ttcggcgcca agctgttcgg catggaccag gtccaggggtg gcagccccta 420
 cggcgccggc acgttcgccg ccgacgggtc gaggtggccg agcgaggtgg agctggagca 480
 cgccttcac caggggaaat acttcgccc catcgccaag aagctcaagg gctctgcttg 540
 atctgcacat accccttatc ataaaacatt tacagattcg tcataccgt ccatagattg 600
 gtctgagttc tctcgtggtg cctggatgct atgtagttca ttggtactgc tg 652

<210> 13110
 <211> 496
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-098-Q1-K7-A5

<400> 13110

ccgggncgac ccagcgnccg aagcaatata gaaaggagaa nccangagca acaaggagc 60
 aacaanggcg accaaganan nggcccncn aaggccccng gcnncnnca cangngnngc 120
 naacgcgaca annncccnc aaggcncaca agcncnana gcncccnc ncccccaaa 180
 ccnccanca annanagcg ggggangnga aaaccagcn cnncaaccan anaggcnca 240
 acaagcaanc gcagcaagca acanaccnnn ancgcccng ggggggcaac aancaccagc 300
 ccnancnngg gggcagnan ggnacaaac cancaggga caacagcngc agcaaccg 360

gcnaccngng ancaaccaag nagnncnggc aaaccnnnncn ccnaccnc agcaacaaca 420
 annngnngca nncaaccaac gggcnacacn gaaccngcn gcnannngc agcaacaacc 480
 angaccaaag agccag 496

<210> 13111
 <211> 665
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-098-Q1-K7-A7
 <400> 13111

ccgggtcgac cttgcgtccg attgagttta acaagcaaca taaaacgtg aatacagtag 60
 caaaaataga gcaacaatgg cggccaagat attttccatc cttatgctcc ttgctctttc 120
 tgcatgtgtt gctaacgcga ccatttttcc tcaatactca caagctccta tagctgccct 180
 tcttccccca taccttccat caatgaccgc tttagtatgt gaaaaccag cccttcaacc 240
 ctacaggatc cagcaagcaa tcgcaacaag caacttacct ttatcacacc tgttctttca 300
 acaatcgcca gccctatctt tgggtgcagtc attggtacaa accatcaggg cagaacagtt 360
 gcagcaactc gtgctaccag tgatcagcca agtagctctg gcaaaccctt cccctactc 420
 tcagcaacaa caatttcttc cattcaacca actgtctata ctgaaccctg ctgcttattt 480
 gcagcaacaa caactactac cattcagcca gctagctact gcctactctc agcagcaaca 540
 atttcttcca tttaaccaat tggcgcgact gaaccctct gcttatttcc agcagcaaat 600
 actactacca tttggccagc tagctacaac aagccccgct ttcttcttga cacaacaaca 660
 agtgc 665

<210> 13112
 <211> 568
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-098-Q1-K7-A8
 <400> 13112

accctacagg atccaacagg caatgcgagc tggcatctta cttttatcac cttgttcct 60
 ccaacaatca tcagccctat tacagcagtt accttgggtg catttattgg cacaaaacat 120

cagggcacaa caactacaac aacttgtgct agcaaacctg gcgggctact ctcagcaaca 180
 gcagtttctt ccattcaacc aactagctgc attgaactct gcttcttatt tgcaacaaca 240
 acaactacca ttcagccagc tatctgctgc ctacccccag caatttcttc cattcaacca 300
 actgacagca ttgaactctc ctgcttattt acagcagcaa caactactac cattcagcca 360
 gctagctggt gtgagccctg ctaccttctt gacacaacca cagttgttgc cgttctacca 420
 gcacgctgcg cctaacgctg gcaccctctt acaactgcaa caattggtgc cattcaacca 480
 acttgctttg acaaaccag cagcattcta ccaacaaccc atcattggtg gtgcctctt 540
 ttagatttct tatgagttat aggtcaat 568

<210> 13113
 <211> 353
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-098-Q1-K7-A9

 <400> 13113

cagaaacatt taagcngcac cnggcgcgca ggagacnaga gcagcaggag gcganagaag 60
 cnnncannn gaggggggag cncacacaaa gggggccgag aaagcccana gcccnngnng 120
 gagcccnnc ccnaaanaca nnacnncna gagnagcaag anggccacag aaaanacgga 180
 ggggggaggn ncnngaagg anacnagna nganagnaag aaaanancna cngnggagnc 240
 nggnaaagaa cagcnancag aaaggaaagn aacnngaaag gcnggggggg gccccncaga 300
 caaccgcaan anagacgaca ncacnaagg nagaagnca ccgncgcggc agc 353

<210> 13114
 <211> 529
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-098-Q1-K7-B1

 <400> 13114

gctcctggga cttnctgcga gtgctgctac ggcgaccatt tccccacaat gtcacaagc 60
 tcctatagct tcccttcttc ccccgtaact ctcaccaacg gtgtcttcgg tatgtgaaaa 120

cccaattctg gggggggaca ggatccaaca ggcaatcgca gctggcatct tacctttatc 180
 acccttggtc ctgcaacaat catcagccct attacagcag ttacctttgg tgcatttatt 240
 ggcacaaaac atcagggcac aacaactaca acaacttggt ctagcaaacc ttgctgccta 300
 ctctcagcaa cagcagtttc ttccattcaa ccaactagct gcattgaact ctgcttctta 360
 tttgcaacaa caacaactac cattcagcca gctatctgct gctaccccc agcaatttct 420
 tccattcaac caactgacag cattgaactc tctgcttat ttacagcagc aacaactact 480
 accattcagc cagctagctg gtgtgagccc tgctaccttt ttgacacaa 529

<210> 13115
 <211> 667
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-098-Q1-K7-B10
 <400> 13115

ccgggtcgac ctgcggtccg atcatattga agtgcactag caacatgtta gcaccaatgg 60
 gagccaagat ttttgcctc cttgcctcc ttgctcttcc agcaagcgct gctacctcga 120
 cttttattcc acaatgctca caacaatacc tctctccggt gacagccgcg ggatttcaat 180
 acccatctat acaatcctac gtggtacaag aggccatcca agcaagcacc ttacggtcac 240
 tagcattaac cctccaacaa ccatatgctc tattgcaaca gccatcctta gtgcatctgt 300
 atctccaaag aatcgcgga caacaactac aacaacagtt gctaccaaca atcaatcaag 360
 tagttgcagc gaaccttgct gcttacctcc agcaacaaca gtttcttcca ttcaatcaac 420
 tagctggggt gaacctgct atctacttgc aggacacaac gctactacca tttaaccaac 480
 ttgtcgggag ccttatgcc ttcttactgc aacaacagct tctgccattc catctgcaag 540
 ctgtggcaaa cattgttgct ttcttgagac aacaacattt gttgccattt taccacaag 600
 ttgtgggaaa cattaatgcc ttcttgaca gcaacaattg ctaccattct accacagaa 660
 tgtggca 667

<210> 13116
 <211> 467
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-098-Q1-K7-B11

<400> 13116

cgggtcgacc ttgcgnncca nnntgttatn cagaacacac cgcgcggaagt gcgctagcaa 60
cgaccnaaca acaanggcng cgaggacatn atccctccnt gcgcttcttg ccctttttgt 120
gagtgaaca aatgcgttca ttattccaca atgctcactt gtcctcgagt ccattattcc 180
acattttctc cctgcagggg gttcaatggg cttcgaacac ccagctgtgc aagcctatag 240
gctacaacaa gcgcttgcyg cgagcgtctt anaacaacca attgcccaat tacaacaaca 300
atccttggca catttaacca tacaaccat cgcaacgcag cagcaacaag cactgagcca 360
cctagccgtg gtgaacccta tcggcttatt gcaacaacag ctgcttggat tcaaccact 420
tgctttggga aacgtaggtg gataccaaca acaaccacag ttgcaac 467

<210> 13117

<211> 543

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-098-Q1-K7-B2

<400> 13117

gcaaggggtcc aggtcgccag cgacaacggg accacggtgt tcgacgacgt gtcctgtgcy 60
gggcagctgc tcctcgtacc ccagggttac ctgcgcgcca ccaaggcgca gggagaaggc 120
ttccagtaca tcgccttcga gacgaaccct gacaccatgg tcagccacgt cgccgggaag 180
aactcgtcc tgagcgactt gccggccgcc gtcctgcgca gtcctgtatgc catctccatg 240
gaggaagctg cagagctcaa gaacggtagg aagcatgagc tggtgtgtgt tactcctgct 300
ggcagtgcca gctaccaaca aggtcaagct ggcagcgccc aacagtaggc acaacctcag 360
agtgatctgc ctgaataagt actcgtagac tgtaataatt aaacaaagct tgctcatggc 420
taaactgcgt gttgattagt ctttcaacta catagctcta aagtttttga tacaccgagt 480
gatttgccag gaaaaaatg agcagattgt tgtaagcaaa anaaaaaaaa aaanaaaana 540
naa 543

<210> 13118

<211> 374
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-098-Q1-K7-B3

 <400> 13118

 tttttcctgg tgcataaggc ggggcttatg gaatgaacat ggcagatctg gaagaatgga 60
 agaagaaaga cttacttggg atttaccaca tatggcagaa catgaacgag aacaggctgc 120
 tctgtgaaac tggggacatt gccagcatgg cttgctaact tttacaagc tgagggaggg 180
 tctggacaaa tcatgtcatg tggcttgctt aaggtacaat gcaaccattg agcgctcaga 240
 gatagacatt gctgctgcca tccactacaa tggaaacatg aatccctggc tggaaattgc 300
 aatgatatag tattggacgt actggacaaa gtacatcaat tatcagcatt cctacattta 360
 tggatgctag atca 374

<210> 13119
 <211> 587
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-098-Q1-K7-B5

 <400> 13119

 cgggtngacc ttgcgnccgc aactagtcaa catatgaaag cacaatcggg taccaacaat 60
 ggcagccaaa atattttgcc tccggatgct ccttgggtctt tctgcaagtg ctgctacggc 120
 gaccattttc ccgcaatgct cgcaagctcc tatagcttcc cttcttcccc cgtacctctc 180
 accagctgtg tcttcggggg gggaaaaccc aattcttcaa ccctacagga tccaacaggc 240
 aatcacagct ggcattcttac ctttatcacc cttgttcttc caacaatcat cagccctatt 300
 acatcagtta cctttgggtgc atttattggc acaaaacatc agggcacaac aactacaaca 360
 acttgtgcta gcaaaccctg ctgcctactc tcagcaacag cagtttcttc cattcaacca 420
 actagctgca ttgaactctg nttnttattt gcaacaacaa caactaccat tcagccagct 480
 acctgctgcc taccctcagc aatttcttcc attcaaccaa ctggcagcat tgaactctcc 540
 tgcttattta caggagcaac aactactacc attcagccag ctagctg 587

<210> 13120
 <211> 481
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-098-Q1-K7-B6

<400> 13120

cggcgaccan nnncccgcaa agcncgcaag cncnanaagc nccccnncnn cccccgnacc 60
 ncnaccagc ggagncnncg gtttttgaaa acccaagggg ggaaccctac aggatccaac 120
 aggcaatcac agatggcatc ttaccttgat cacccttggt cctccaacaa tcatcagccc 180
 tattacatca gttacctttg gtgcatttat tggcacaaaa catcagggca caacaactac 240
 aacaacttgt gctagcaaac cttgctgcct actctcagca acagcagttt cttccattca 300
 accaactagc tgcattgaac tctgcttctt atttgcaaca acaacaacta ccattcagcc 360
 agctacctgc tgcctacccc cagcaaattc ttccttcaac caactggcag caatgaactc 420
 tctgcttat ttacaggagc aacaactact accattcagc cagctagctg gtgtgagccc 480
 t 481

<210> 13121
 <211> 661
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-098-Q1-K7-B7

<400> 13121

cggggtcgac ctgcggtccg gaccaacatg caacatagaa agtggaatac agtagcaaaa 60
 atagagcaac aatggcgggc aagatatttt ccatccttat gtccttgct ctttctgcat 120
 gtgttgctaa cgcgaccatt tttcctcaat actcacaagc tctatagct gcccttcttc 180
 cccatacct tccatcaatg accgctttag tatgtgaaaa cccagccctt caaccctaca 240
 ggatccagca agcaatcgca acaagcaact tacctttatc acacctgttc tttcaacaat 300
 cgccagccct atctttggtg cagtcattgg taaaaccat cagggcagaa cagttgcagc 360
 aactcgtgct accagtgatc agccaagtag ctctggcaaa cctttcccc cactctcagc 420
 aacaacaatt tcttccattc aaccaactgt ctatactgaa ccttgcgtgt tatttgcagc 480

aacaacaact actaccattc agccagctag ctactgccta ctctcagcag caacaatttc 540
 ttccatttaa ccaattggcc gcaactgaacc cctctgctta tttccagcag caaatactac 600
 taccatttgg ccagctagct acaacaagcc ccgcttcctt cttgacacaa caacaagtgc 660
 t 661

<210> 13122
 <211> 352
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-098-Q1-K7-B9
 <400> 13122

ccgggtngac ctgcgncgcg aaaattctgn accggagcta gaggccgtag tggttctata 60
 aaaaaaacga tgtgtaatat aacaattgta ctaaataatag taaagaaatc aaaataatct 120
 ttagatcaat ctaagatttc gattcccagt aaaaaaaaaa gaaatataat agaaaaatat 180
 gggacataaa ataaatccac ggggttttag acttgggtaca acccaaaatc accaatcctt 240
 ttggttcgca caaccaaaaa aatattctga agggctacca ggagaaaaaa aaataccgga 300
 ttggatcaag aaccattttc caaaaaatag ggaaaaaggg ttgaattgaa aa 352

<210> 13123
 <211> 492
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-098-Q1-K7-C1
 <400> 13123

gtgtnttngg tatgtgaaaa cnnaattntt gaannntaca ggatccaaca ggcaatcaca 60
 gctggcatct tacctttatc accctggggg ctgcaacaat catcagccct attacatcag 120
 ttacctttgg tgcatttatt ggcacaaaac atcagggcac aacaactaca acaacttgtg 180
 ctagcaaacc ttgctgccta ctctcagcaa cagcagtttc ttccattcaa ccaactagct 240
 gcattgaact ctgcttctta tttgcaacaa caacaactac cattcagcca gctacctgct 300
 gcctaccccc agcaatttct tccattcaac caactggcag cattgaactc tctgtgttat 360

ttacagcagc aacaactact accattcagc cagctagctg gtgtgagccc tgctaccttc 420
 ttgatacaac cacagttggt gccggtctac cagcacgctg ggcctaacgc tggcaccgtt 480
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<210> 13124

<211> 524

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-098-Q1-K7-C10

<400> 13124

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 ggaggaggcg gagggggagg ccatgggcaa ggacgacgtg gtccagagcg gcgcggggcg 120
 cggggagttc gccgccaagg actacacgga cccgcgcgcg gcgcctctgg tggacgcggg 180
 ggagctgggt tcgtggtcgc tgtaccgcgc ggtgatcgcg gagttcatcg cgacgctgct 240
 gttcctgtac gtgacggtgg cgacggtgat aggggtacaag caccagacgg acgcgtcggc 300
 gtcggggggc acggccgacg cggcgtgcgg cggcgtgggc gtgctgggca tcgcgtgggc 360
 cttcggcggc atgatcttcg tgctgggtcta ctgcaccgcc ggcattctcg gggggccacat 420
 caaccgggcc gtcaccttcg gccttttcct ggcgcgcaag gtgtcgctgg tgcgcgcgct 480
 gctgtacatg gtggcgcaat gccttggcgc cctctgcggc gtcg 524

<210> 13125

<211> 484

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-098-Q1-K7-C11

<400> 13125

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 tcggggccct atggagatcc agcaccaccg ggggctgggc aactccaagg ttgtcaagg 120
 gcagagcgag gaggcgtggg atctgttcac cgatcaagcg agcaacgaag gccggcccgt 180
 tgttgcccac ttcggggcgt gatggtgcgt gacgtccctg tccatgaact acaagtttga 240
 ggagctggcg cagaccacc cggaggtctt gttcctctac gtggacgtcg accatgtcca 300

aagtgtttca tccaggtacg gagtgaaggc catgccgacg ttcttcctta ttaagaacaa 360
 ggaggtggtg gggaagatcg ttggggcgaa cccaaaccag gtgaagaagc tggtaggatgc 420
 ttccgcccag cccttggaga ctcaaatagt cgtggagtag tagtcgtttc aaactttttt 480
 ttg 484

<210> 13126
 <211> 642
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-098-Q1-K7-C2
 <400> 13126

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 gatttttgcc atccttgccc tccttgcctc ttcagcaagc gttgctaccg cgactattat 120
 tccacaatgc tcacaacaat acctctctcc ggtgacagcc gcgagatttg aatacccaac 180
 tatacaatcc tacaggctac aagaggccat cgcagcaagc atcttacggc cgtagcatt 240
 gaccgtccaa caaccatatg ccctattgca acaaccatcc ttaatgaatc tatactcca 300
 aagaatcgca gcacaacaac tacaacaaca gttgcttcca acaatcaatc aagtagttgc 360
 agcgaacctt gctgcttacc tccagcaaca acaatttctt ccattcaatc aactagctgg 420
 ggtgaaccct gctgcttact tgcaggcaca acagctacta ccattcaacc aacttgctag 480
 gagccctgct gccttcttac tgcagcaaca gttgctttca ttccatctac aagttgtggc 540
 aaacattgct gctttcttgc aacaacaaca acaattgctg ccattttacc cacagttgtg 600
 ggaaacatta acgccttctt gcacagcaac agttgctacc at 642

<210> 13127
 <211> 597
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-098-Q1-K7-C4
 <400> 13127

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 tgggaacatg gaaaaccatc tgttaggag aggetcatatc ttccaacctc tgtcatggaa 120

ccttagaatg aaggttgcac tgggagcagc aaaaggacta gcttaccttc atagtgcaga 180
 ggcaaaagtt atttaccgag attttaagac ttcgaacatt ctcccttgaca cagattattc 240
 tgcgaagctt tctgattttg gattggctaa ggatggtcct gtcggtgaga agagccatgt 300
 gtccacaaga gttatgggaa catatgggta tgcagctcct gagtatcttt caacagggtca 360
 cctaactgca aagagcgaca tctatagctt tggggtagtg cttctggaga tgctgtcagg 420
 ccgccgcgcc atcgacaaga accgtcccca ggggtgagcac aatctcgtgg agtgggctcg 480
 accttacctc acacataagc gcaagatatt tcggatcctg gatacgaggc tggaagggtca 540
 atacaatctg aacggtgcac aaacaattgc tgcccttgct ctggaatgcc tacccta 597

<210> 13128
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-098-Q1-K7-C6

 <400> 13128

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 agcagtgttg ccagcagctc aggcaggtgg agccgcagca ccggtaccag gcgatcttcg 120
 gcttggtcct ccagtccttc ctgcagcagc agccgcaaag cggccaggtc gcggggctgt 180
 tggcggctca tatagcgagc gggctgacgg cgatgtgcgg cctgcagcag ccgactccat 240
 gccctacgc tgctgccggc ggtgtccccc actgaagaaa ctatgtgctg tagtatagcc 300
 gctggctagc tagctagttg agtcatttag cggcgatgat tgagtaataa tgtgtcacgc 360
 atcaccatgg gtggcagtgt cagtgtgagc aatgacctga atgaacaatt gaaatgaaaa 420
 gaaaaaaagt actccatctg ttcc 444

<210> 13129
 <211> 457
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-098-Q1-K7-C7

 <400> 13129

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 gcgccgcggc ggcaagaacg atggccgagg aggccaaagta cctggagacg gcgcgggggg 180
 ggggttnent gtggtttatg aagtgtcccc nggtcgtttt ccgcgcctgg cngggcgnc 240
 gcgnccttcg cttttntttc gncgccgttt acgccaaacc ngttgttgnc aaggtnngnc 300
 ttttnctttg ncttgtttng nccngnagaa cggccngaag agcggccggg agagggggann 360
 gctcanttna agatggagtt gggacaaact aacattgggg attcacctta gagctttttt 420
 ttgaatatgt ttaaagggtt tngggctttg tgtgttt 457

<210> 13130
 <211> 623
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-098-Q1-K7-C8
 <400> 13130

cagaacatac caagcgaagc gcactagcaa cgacctaaca acaatggcta ccaagatatt 60
 agccctcctt gcgcttcttg ccctttttgt gagcgcaaca aatgcgttca ttattccaca 120
 atgctcactt gtccttagtg ccattattcc acagtctctc ccaccagtta cttcaatggg 180
 cttcgaacac ctagctgtgc aagccaacat gcaacaacaa gcgcttgagg cgagcgtctt 240
 acaacaacca attgcccatt tgcaacaaca atccttgcca catctaacaa tacaagccat 300
 cacaacgcaa cagcaacaac agttcctacc agcactgagc cacctagcca tgggtgaacc 360
 tgccgcctac ttgcaagagc agctgcttgc atccaacca cttgctctgg cgaacgtagt 420
 tgcaaaccag caacaacaac agctacaaca gtttctgcca acgctcagtc aactagccat 480
 ggtgaaccct gccgcctacg tacaacaaca acaactgctt tcatctagcc cgctcgctgt 540
 gggcaatgca cctacatacc tgcaacaaca attgttgcaa cagattgtac cagctctgac 600
 tcaactagct gtggcaaacc ctg 623

<210> 13131
 <211> 668
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-098-Q1-K7-C9

<400> 13131

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acaatggctt ccaagacatt atccctcctt gcgcttcttg ccctttttgt gagtgcaca 120
aatgcgttca ttattccaca atgctcactt gctccgagtg ccattattcc acagttcctc 180
cctccattta cttcaatggg cttcgaacac ccagctgtgc aagcctatag gctacaacaa 240
gcgcttgagg cgagcgtctt agaacaacca attgccaat tacaacaaca atccttgga 300
catctaacca taaaaccat cgcaacgcag cagcaacaag cactgagcca cctagccgtg 360
gtgaacccta tcgcctactt gcaacaacag ctgcttgcac ccaaccact tgctttggca 420
aacgtagctg cataccaaca acaacaacag ttgcaacagt ttctaccagc gctcagtcaa 480
ctagccatgg tgaaccctat cgcctaccta caacagcaac aacttctttc atctagcccg 540
ctcgctatgg gcaatgcacc tacatacctg caacaacagt tggtgcaaca acagttgctg 600
caacaaattg taccagctct tactcagcta gctgtggcaa accctgctgc ctacttgcaa 660
caactact 668

<210> 13132

<211> 627

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-098-Q1-K7-D1

<400> 13132

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cctaacaaca atggctacca agatattagc cctccttgcg cttcttgccc tttttgtgag 120
cgcaacaaat gcgttcatta ttccacaatg ctcaattgct cctagtgcc a ttattccaca 180
gttcoctcca ccagttactt caatgggctt cgaacaccta gctgtgcaag ccaacatgca 240
acaacaagcg cttgcggcga gcgtcttaca acaaccaatt gcccaattgc aacaacaatc 300
cttgccacat ctaacaatac aagccatcac aacgcaacag caacaacagt tcttaccagc 360
actgagccac ctagccatgg tgaaccctgc cgcctacttg caagagcagc tgcttgcac 420
caaccactt gctctggcga acgtagtgc aaaccagcaa caacaacagc tacaacagtt 480
tgtgccaacg ctcaagtcaac tagccatggg gaaccctgcc gctacgtac aacaacaaca 540

actgcttttta tctagcccgc tcgctgtggg caatgcacct acatacctgc aacaacaatt 600
gttgcaacag attgtaccag ctctgac 627

<210> 13133

<211> 577

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-098-Q1-K7-D11

<400> 13133

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ccgatgcttg gcttccgtgg ctgcaggctt ggtatatcgt accctgagct aacagaaatg 120
caaggccgtg ccatctttga agctgctata acgatgacca accagggcgt tcaagtcttt 180
ccagagataa tggttcctct tgttgaaca ccgcaggaat tgggacatca ggtggccctt 240
atccgtcaag tcgctaaca agttttcacc agtatgggta aaactattgg gtacaagatc 300
gggacgatga ttgagattcc cagggcagct ctagtggctg acgagatcgc ggagcaggct 360
gaattcttct cctttggaac gaacgacctc acgcagatga cctttggcta cagcagggat 420
gatgtgggga agttcatccc catttatctg gctcagggca tctccagca tgaccccttc 480
gaggttctcg accagagagg agtgggcgag ctggttaagc ttgctacaga gaggggccgc 540
aaagctaggc ctaacttgaa ggtgggcatt tgtggag 577

<210> 13134

<211> 601

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-098-Q1-K7-D3

<400> 13134

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agactctata tgactgcgag gaagtattag ctacatatcg tgaagagggt atttctctct 180
cagtgcogtt cgaggagcaa aatctgattg ataagcacca ttcagaattc ttgaaatata 240
tgtcgaatga tcttaaaacc acagatgttc tggatcggtg cttcatggag ctgctgaagg 300

ccataaacag cagtttgaat gatttgaaga aactgcaaca gaaaatagaa cagcaaaaga 360
 agaaacagca acagcagaag aagcagcaac agaagcaaca gcaattgcaa aaacagccag 420
 aacattatat tcaagctctg attgcactgg aaatagaact taaaaataaa ctgtctatac 480
 ttggtctgat gccatcttca tctttggcag aggtactgaa gcaattgaag gacaaagcac 540
 taaagagagc ggggctgact gaagaaaaat tgcaagagca gattgagcag agaaacgttg 600
 c 601

<210> 13135
 <211> 610
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-098-Q1-K7-D4
 <400> 13135

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 nggaggccag cggcgcagcg caacatgcgc aatcagtggc cccatctgag cgccgccaag 120
 gagcagtggc tggccgccgt tgctgacggc cgtgcccacg cctccgcgct ctttaacgtc 180
 cacgggggtcg tgcaggaaca tgccgacgat ggatttgggg gtgctcaagg atatgccggg 240
 gatccgcgat aaggcgaact ccaagtggc gcttagagag gagcaatata gcggcatgct 300
 tctgtcggcc tacaaggaga tggccgtca gctgtctac ttggttgaag cttcccatc 360
 tatgcgccgt ttttctaaag cggctccaaa ttgccccatc acacagtttt ctgaccgcca 420
 agataatttg aatgattcag gggatgggtg aggagcccca gtattcaaat ggttctctgt 480
 tttagaattt gagagtcttg ccaggagct tgttcagatg tttgtttcag agcaaaagt 540
 gaagaggctt gttctcttgg aatttctctc gattgcttta aaggaagggtg tngaactcca 600
 gacattatta 610

<210> 13136
 <211> 402
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-098-Q1-K7-D6

<400> 13136

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tctgcggcct cccggccgag tactgcgagt tcggccccga cttegagcgc tgcaagccct 120
ggctgcgcgc gcatgcgccc ggcgtctacc ccgacgacct tgtegcgcnc tntccgggg 180
gatccggcgg cggcgacaag gacgtcgaca gggtcgggga tcgcctncag ggcgtcggga 240
tctccgacgg ctccaccagc gccgcagggg atgcttccgc gtctaagccc caagaggcga 300
aacgcctgcc tgggtgtaag ctcaagaaaa aggagaagca agaagnggnc atggagaaga 360
ttgtncgtna caagcgcaaa tgngtnactg tgggaaggg gc 402

<210> 13137

<211> 154

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-098-Q1-K7-D7

<400> 13137

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cgggcggttg agctgcccgt gccctctcca attcttcatt taagggtgact gttttggaat 120
cgagagatcg tattggcggg cgcattcata ctga 154

<210> 13138

<211> 633

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-098-Q1-K7-D8

<400> 13138

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atgtcgcaa gctctatag ctctccttct tccccgtac ctctcaccag cgggtgtcttc 180
ggatatgttaa aacccaattc tggagcccta caggatccaa caggcaatcg cagctggcat 240
cttaccttta tcacccttgt tcctccaaca atcatcagcc ctattacaac agttaccttt 300
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ccttgctgcc tactctcagc aacagcagtt tcttccattc aaccaactag gttcattgaa 420
 ctctgcttct tatttgcaac aacaacaact accattcagc cagctacctg ctgcctaccc 480
 ccagcaattt ctccattca accaactagc agcattgaac tctcctgctt atttacagca 540
 gcaacaacta ctaccattca gccagctagc tgggtgtgagc cctgctacct tcttgacaca 600
 accacagttg gttgccgttc taccagcacc gtg 633

<210> 13139

<211> 637

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-098-Q1-K7-D9

<400> 13139

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 gcaagctcct atagcttccc ttcttcccc gtacctctca ccagcgggtg cttcgggtatg 180
 tgaaaaccca attcttcaac cctacaggat ccaacaggca atcacagctg gcattctacc 240
 tttatcacc cttgttctcc aacaatcatc agccctatta catcagttac ctttgggtgca 300
 tttattggca caaaacatca gggcacaaca actacaaca cttgtgctag caaaccttgc 360
 tgccactctc cagcaacagc agtttcttcc attcaaccaa ctagctgcat tgaactctgc 420
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 atttcttcca ttcaaccaac tggcagcatt gaactctcct gcttatttac agcagcaaca 540
 actactacca ttcagccagc tagctggtgt gagccctgct accttcttga tacaaccaca 600
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<210> 13140

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-098-Q1-K7-E1

<400> 13140

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gctccttggc ctttctgcaa gtgctgctac ggcgaccatt tctccgcaat gctcgcaagc 120
 tcctatagct tgccttcttt ccccgaaact gttaacagcg gtgtattgcg tatgtgaaaa 180
 cgcaattctt caaccctaca ggatccaaca ggcaacagca acttgcataa gacctctatc 240
 accatcggtc cttcaacaat aatcagccat attacaacag tgaccaattg tgcattcatt 300
 gggtgaaaac atcaaggaac aacaactaca aaaactagtg ctagcacacc ttgctaccaa 360
 ctctgagcca cataagcatc gtgaacccaa ccaactacgt gcattaaact ctgct 415

<210> 13141

<211> 503

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-098-Q1-K7-E10

<400> 13141

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 ctaccaagat attatccctc cttgcgcttc ttgcgctttt tgcgagcgca acaaatgcgt 120
 tcattattcc acaatgctca cttgctccaa gttccattat tacacagttc ctcccaccag 180
 ttactttcaat gggcttcgaa caccagctg tgcaagccta taggctacaa caagcaattg 240
 cggcgagcgt tttacaacaa ccaatttccc agttgcaaca acaatccttg gcacatttaa 300
 caatacaaac cattgcaacg caacagcaac aacaattcct accagcactg agccacctag 360
 ccatggtgaa ccctgccgcc tacttgcaac agcagttgct tgcacaaac ccacttgctc 420
 tggcaaacgt agttgcaaac cagccacaac aacagctgca acagtttctg ccagcgctca 480
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<210> 13142

<211> 642

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-098-Q1-K7-E11

<400> 13142

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ctgtcgcta cttgcaacag caggtgcttg catccaaccc acttgctctg gcaaacgtag 180
ctgcatacca acaacaacaa caattgcaac agtttctgcc agcgctcagt caactagcca 240
tggtgaaccc tgccgcctac ctacaacagc aacaactgct ttcattctagc cctctcgctg 300
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tgactgtgtc gaactctgct gcgtacctac aacagcgaca acagttactt aatccactag 480
cagtgcctaa cccattggtc actgccttcc tacagcagca acaattgcta ccatacagcc 540
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<210> 13143
<211> 583
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-098-Q1-K7-E2
<400> 13143

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ggtggaggtg ccggcggagc tgggtggcggc gggcagccgg acgccgtcgc ccaagacgaa 180
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cggcgaccac ggccacctcg cctactccca caccaaccag gcgtctctcc gccccaggtc 300
gttcgcggcc aaggacgagg tgttctgcct gttcgaaggg gtgctggaca acctgggtcg 360
gctgagccag cagcacgggc tgtcaagcaa gggcgccaac gaggtgctcc tcgtcatcga 420
ggcctacaag acgtgcgcgc accgcgcgcc ctaccgggcc agctttatgc tcgccagct 480
caccggctcc tacgccttcg tctctctcga caagtccacc aactccctgc ttgtcgcac 540
tgacccccgg ggcaggggtgc ccgtcttctg ggggatcacc gcc 583

<210> 13144
<211> 536
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-098-Q1-K7-E5

<400> 13144

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tccctccgtt acaagctcct cggaggcctt gccgtccgca gggcttgcta tgggtgttctt 180
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gccccaaagag ccaagtccat gaagttcaag gatgggtaca tgatctcatc tggtcagcca 300
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cttccggacc tggtgaccat ccacaccccg aaggacgagg acgagccgcg ccctccggtc 480
ttggcacctc ctgaggtgta aggtcccaac tgtgtccttg aaatggcagt ttgatac 536

<210> 13145

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-098-Q1-K7-E7

<400> 13145

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ataaatttaa ctgcgagget agctgctgaa catcgatctg ctagtattac tacggcgagg 180
ctgctgaaca gcgctcagtt cggaatgtat gtataatctg aacgccaaagt ttaattttat 240
gttacttcta ccgatt 256

<210> 13146

<211> 647

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-098-Q1-K7-E8

<400> 13146

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accaacaggt ccgccgagga tgagctcaac atcttcgacg cagacttcgt caatgtagag 120
 cactccaccc tcttggacct catcctgggt gcaaactacc tggacatcaa ggggtcctg 180
 aacctggccc gccaaaccat tacagacttg atcaatggga agatgcctga ggaggtctgc 240
 aagaccaaca tcaagaacga cttgaccatc ccttcacgt cggccttggc caccacaatg 300
 ccctcctccg agcgaaagca gatggaggcc aggtttatcg cctatatgca agaaactgct 360
 gaggagagga tgactgggtt tgctgttcgt ggtgaaaaat acagaaagca tggatgaacgt 420
 ccgccacaac caccattgga gatagttaa taccagctc ttttggaaag agcttgggga 480
 tgggattcga tactgccgta ctgtcctgtg aattcttggc ccctatacaa gacttacctc 540
 caagaataat atgagcgcaa ttctcgtgaa gtattggctc atcaagtgga agctaattgct 600
 gcctctggtc ccattcacg gggctgatga gatgatctgg cactctg 647

<210> 13147

<211> 647

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-098-Q1-K7-F1

<400> 13147

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 gctcccagac gccacggtgt tctgtttcca gtctctgagc ccgctggcga gcaacaacgg 120
 gcaactgcgc acgctgaaca aggcgctgag cggggcgctg gtggcgctgt ggggcgctc 180
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 cgtggtgacg cggcggggcc tgcgcacctt caccgccgac ccggacgcg ccgcccgga 300
 cctgtcggcg taccgcctcc gcgcggcga cttcgcgcac gccgcgtct cgtgctcgt 360
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 gctcgcgag cccaccatga tggccgtgct cccgccgctc gtcggcgccg tcgcgggcta 480
 cgtcttcatg gtgttcccca acaaccggca cggcgtcggg taccagccca cggccgccac 540
 cgaggacttc cagcacaat actagccagc cggttcgtcg tcgttgacaga gtactgtact 600
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<210> 13148
 <211> 644
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-098-Q1-K7-F10

<400> 13148

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 gtcategttc tcgtcgtgtg cctggctctg tcagctgccg gcgcctctgc aatgcagatg 120
 ccctgcccct gcgcggggct gcagggcttg tacggcgctg gcgcgggcct gacgacgatg 180
 atgggcgccg gcgggctgta cccctatcgcg gactacctga ggcagccgca gtgcagcccg 240
 ctggcgggcg gcgcctacta cgccgggtgt gggcagacga gcgccatgta ccagccgctc 300
 cggcaacagt gctgccagca gcagatgagg atgatggacg tgcagtccgt cgcgacgacg 360
 ctgcagatga tgatgcagct tgagcgtgcc gctgccgcca gcagcagcct gtacgagcca 420
 gctctgatgc agcagcagca gcagctgctg gcagcccagg gtctcaaccc catggccatg 480
 atgatggcgc agaacatgcc ggccatgggt ggactctacc agtaccagta ccagctgccc 540
 agctaccgca ccaacccctg tggcgtctnc gctgccattc cgccctacta ctgattcatg 600
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<210> 13149
 <211> 647
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-098-Q1-K7-F11

<400> 13149

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 tgaccgtgtt aatgatgaca aagacattcc aatcattgaa gccaaattga ctgatgagcc 120
 tgggtgttgat ccatttgccg aaagaaggga tgagaagaag aagaggggtg aaaagcaaga 180
 aaaaaacaga ctggataact taaagaaagc tgcaaagggt ggcgctttgc caagtcatat 240
 acagcttgct gcgaaggcgt tgcccatcac aggaacaaaa gctgaccttc caaaaaaatc 300
 tagaaaagag gatcttgaga gtgttgctcg catggcttca tcagcaacag caagtgggtg 360

gaagtttgat gagaagttgc ctggcgagaa acctccaaag caccctggca aacacagaaa 420
gttcctccca gttgccgaag ggaaggggaat gggcagcctg gagaaacagc agaatgacaa 480
aatcctgaac tctctacttg ccagaaactc tgatgaacca cttgatgtcg gcaaggcaat 540
tacaatgtac aaggtgaaaa aggagaagca gagaaggaaa gagaaaggca tgtcatcgaa 600
atctgataag ctttaagcccc agaagaaacc ccacaagaag tcatcga 647

<210> 13150

<211> 627

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-098-Q1-K7-F2

<400> 13150

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agtagagagg ctagtaggtg gtcctcgaa gaagatgttg gcggtgttca gcgggcaggt 120
ggtggaggtg ccggcggagc tgggtggcggc gggcagccgg acgcccgtcg ccaagacgaa 180
ggcgtcgcag ctctgtggggc gcttcctggc cgcgtccgag ccggccgtgt ccgtgcagct 240
cggcgaccac ggccacctcg cctactccca caccaaccag gcgctcctcc gcccaggtc 300
gttcgcggcc aaggacgagg tgttctgcct gttogaaggg gtgctggaca acctgggtcg 360
gctgagccag cagcacgggc tgtcaagcaa gggcgccaac gaggtgctcc tcgtcatcga 420
ggcctacaag acgctgcgcg accgcgcgcc ctaccgggcc agcttcatgc tcgcccagct 480
cacgggcttc tacgccttcg tcctcttcga caagtccacc aactccctgc tcgtcgcctc 540
tgaccccgag ggcagggtgc cgctcttctg ggggatcccg ccgacggctg cgtcgccttc 600
tcgacgaca tcgacatgct caaaggc 627

<210> 13151

<211> 660

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-098-Q1-K7-F4

<400> 13151

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ctgcgagcgc cacctccacg catacaagcg gcggtgcgg ctgccagcca ccgccgccgg 120
 ttcattctacc gccgccggtg catctgccac ctccggttca cctgccacct ccggtgcatc 180
 tcccaccgcc ggtccaccgg gggccgccgg tccacctgcc accgccggtc catgtgccgc 240
 cgccggttca tctgccgccg ccaccatgcc actaccctac tcaaccgccc cggcctcagc 300
 ctcatcccca gccacacca tgcccgtgcc aacagccgca tccaagcccc tgccagctgc 360
 agggaaacctg cggcggttggc agcaccgccg tccctgggcca gtgcgtcgag tttctgaggc 420
 atcagtgcag cccgacggcg acgccctact gctcgctca gtgccagtcg ttgcccgcagc 480
 agtggttcca gcagctcagg caggtggagc cgcagcaccg gtaccaggcg atcttcggct 540
 tggctcctcca ggccatcctg cagcagcagc cgcaaagcgg gcaggtcgcg gggctgttgg 600
 cggcgcaaat agcgcagcaa ctgacggcga tgtgcgggct gcagcaaccg acttcatgcc 660

<210> 13152

<211> 73

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-098-Q1-K7-F5

<400> 13152

aaaaaaattt aaaaaaaaaa aaaaaaaagg aaaagggaaa aataaaaaaaaa aaaaaaaaaa 60

aaaaaggggg ggt 73

<210> 13153

<211> 233

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-098-Q1-K7-F6

<400> 13153

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tgttgcaaat aagaagcaga gttcaaccaa cttgctttga caaaccacgc agcgttctac 120

caacaaccca tcattggtgg tgccctcttt tagatttctt atgagttata gttcaataat 180

aaagtttttt gtctgatgtt tgtggcttcc cagaaataag aaagtacatt tct 233

<210> 13154
<211> 655
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-098-Q1-K7-F7

<400> 13154

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tagcaacata gaaagcacia tagtgtacca acaatggcag ccaaaatatt ttgcctcctt 60
atgctccttg gtctttctgc aagtgtgtgt acggcgacca ttttcccaca atgtccacaa 120
gctcctatag ctcccttctt tccccgtac ctctcaccag cggtgtcttc ggtatgtgaa 180
aaccaattc ttcaacccta taggatccaa caggcaatcg cagctggcat cttaccttta 240
tcacccttgt tctccaaca atcatcagcc ctattacagc agttaccttt ggtgcattta 300
ttggcacaaa acatcagggc acaacaacta caacaacttg tgctagcaaa ccttgctgcc 360
tactctcagc aacaacagtt tcttccattc aaccaactag ctgcattgaa ctctgcttct 420
tatttgcaac aacaacaact accattcagc cagctatctg ctgcctaccc ccagcaattt 480
cttcattca accaactgac agctttgaac tctcctgctt atttacagca gcaacaacta 540
ctaccattca gccagctagc tgggtgtgagc cctgctacct tcttgacaca accacaattg 600
ttgccgttct accagcacgc tgcgcctaac gctggcaecc tcttacaact gcaac 655
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<210> 13155
<211> 640
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-098-Q1-K7-F8

<400> 13155

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cctatagctg cctttcttcc ccctacatt ccatcaatga ccgctttagt atgtgaaaac 180
ccagcccttc aaccctacag gatccagcaa gcaatcgcaa caagcaactt acctttatca 240
cacctgttct ttcaacaatc gccagcccta tctttggtgc agtcattggt acaaaccatc 300
agggcagaac agttgcagca actcgtgcta ccagtgatca gccagtagc tctggcaaac 360
ctttcccccct actctcagca acaacaattt cttccattca accaactgtc tatactgaac 420
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cctgctgctt atttcagca acaacaacta ctaccattca gccagctagc tactgcctac 480
tctcagcagc aacaatttct tccatttaac caattggccg cactgaacct ctctgcttat 540
ttccagcagc aaatactact accatttggc cagctagcta caacaagccc cgcttccttc 600
ttgacacaac acaagtgcct tcgttctacc agcagtttgt 640

<210> 13156
<211> 140
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-098-Q1-K7-G10
<400> 13156

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tattgaagta taactcataa gcaatctaaa agagggcacc accaatgatg ggttggttgg 120
agaacgctgt tgggtttgtn 140

<210> 13157
<211> 631
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-098-Q1-K7-G11
<400> 13157

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tgctagccta ccatggctga tcaccaccgg ggtgcgcagg gaggtggcgg gggctacggc 120
gacctccagc gcggggggcg catgcacggc gaggcgcagc agcagcagaa gcagggcgcc 180
atgatgacgg cgctcaaggc cgcgacggcc gcgacctcg gcgggtcgat gctggtgctg 240
tccgggctga tcctggccgg caccgtgatc gcgctcacgg tggccacccc cgtgctggtg 300
atcttcagcc cgcgtggtgg cccgcggggc ggattcggcc ttggccctca tgggcggggc 360
gggttgctgc acctccgggc ggctcgggc gtcgcttgcg ctgtcccgctg tttctcctgg 420
gatggtacaa gtagcctgac ggggcaagca cgccgccggg gcgcccagacc acgctggacc 480
acgccaaaggc gagggctggc gtccaaggcc cgcgacatca aggatgcagc acagcaccgc 540

atcgaccagg cgcaggggtc ttgagagaag accacactcg agcggaccgc gcgcgcgacc 600
tccttgaacc actgccggcg cggcgggata t 631

<210> 13158

<211> 149

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-098-Q1-K7-G12

<400> 13158

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acgtggctgt cctagctcgc tctgctagcc taccatggct gattaccagc cgggggtgcga 120
cagggaggtg gtgggggcta cggcgacct 149

<210> 13159

<211> 615

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-098-Q1-K7-G2

<400> 13159

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cattagcaac aacctaacaa caatggctac caagatatta tccctccttg cgcttcttgc 120
gctttttgcg agcgcaacaa atgcgttcat tattccacaa tgetcacttg ctccaagttc 180
cattattaca cagttcctcc caccagttac ttcaatgggc ttogaacacc cagctgtgca 240
agcctatagg ctacaacaag caattgcggc gagcgtctta caacaaccaa tttcccagtt 300
gcaacaacaa tccttggcac atctaacaat acaaaccatc gcaacgcaac agcaacaaca 360
attcctacca gcactgagcc acctagccat ggtgaaccct gccgcctact tgcaacagca 420
gttgcttgca tcaaaccac ttgctctggc aaacgtagtt gcaaaccagc cacaacaaca 480
gctgcaacag tttctgccag cgctcagtca actagccatg gtgaaccctg ccgcctacct 540
acaacagcaa caactgcttt catctagccc gctcgtctgt gccaatgcac ctacatacct 600
gcaacaacaa ttggtt 615

<210> 13160
 <211> 667
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-098-Q1-K7-G3

<400> 13160

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tatctgaatg ctggagggtt ttagtacttt ggggtgctttg gtatccttga ctttcagtta  120
gatatgtcca caaaaagttc agtcagcagt acaaagctac aatcgggtgca gatttcgtca  180
caaaggaggt tctgatcgaa gacaggetag tcacgttgca gatatgggac accgcggggc  240
aggagagatt ccagagtcctt ggggttgcac tctacagagg ggccgattgc tgtgtgctcg  300
tctatgatgt taactctaac aggtcatttg atacactcaa tacatggcat gatgaattcc  360
tcaaccaagc tagcccatca gacccaataa cttttccctt catcttactc ggtaacaaga  420
ttgatgtaga tgggtggaaa agcagagtgg tttctgataa gaaagcaatg gagtgggtgtg  480
cttctaaagg caatatccct tattttgaaa cttctgcaaa agaggactac aatgttgaca  540
atgctttcct gactgttgcc aagcttgctc tagagcatga gcgcgatcag gacatttact  600
tccagagtgt tgcggatcct gtccttgaga ctgagcagag aagcngatgt gcatgctagt  660
agttagt                                           667

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<210> 13161
 <211> 636
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-098-Q1-K7-G6

<400> 13161

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agtgtcact tgtcctagt gccattatc cacagttcct cccaccagtt acttcaatgg  180
gcttcgaaca tccagccgtg caagcctaca ggctacaact agcgtttgag gcgagcgcct  240
tacaacaacc aattgcccaa ttgcaacaac aatccttggc acatctaacc ctacaaacca  300

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ttgcaacgca acaacaacaa caacaacagt ttctgccatc actgagccac ctagccgtgg 360
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 acgtagctgc ataccagcaa caacaacagc tgcaacagtt tatgccagt ctcagtcaac 480
 tagccatggg gaacctgcc gtctacctac aactactttc atctagcccg ctgcggtgg 540
 gcaatgcacc tacgtacctt caacaacagt tgctgcaaca aattgtacca gctctgactc 600
 agctagctgt ggcaaaccct gctgcctact tacaac 636

<210> 13162

<211> 659

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-098-Q1-K7-G7

<400> 13162

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 aatggctacc aagatattag cctccttgcc gcttcttgcc cttttagtga gcgcaacaaa 120
 tgcgttcatt attccacagt gctcacttgc tcctagtgcc attattccac agttcctccc 180
 accagttact tcaatgggct tcgaacatcc agccgtgcaa gctacaggc tacaactagc 240
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 cccacttgct ctggcgaacg tagctgcata ccagcaacaa caacagctgc aacagtttat 480
 gccagtgtc agtcaactag ccatggtgaa ccctgccgtc tacctacaac tactttcatc 540
 tagcccgtc gcgggtggga atgcacctac gtacctacaa caacagttgc tgcaacaaat 600
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<210> 13163

<211> 596

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-098-Q1-K7-G8

<400> 13163

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agctcctata gcttcccttc tttcccgta ccttttacca acggtgtctt cggatgtga 180
aaaccaatt cttcaaccct acaggatcca acaggcaatc gcagctggca tttaccttt 240
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attggcacia aacattaggg cacaacaact acaacaactt gtgctagcaa aacttgctgt 360
ctactctcag caacagcagt ttcttccatt caaccaacta ggttcattga actctgcttc 420
ttatttgcaa caacaacaac taccattcag ccagctacct gctgcctacc cccagcaatt 480
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<210> 13164
<211> 373
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-098-Q1-K7-H1
<400> 13164

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cagggagaag gcnccagaa cancgcccc gagacgaacc cngacaccan ggnagccac 180
gncgcccggga agagggccgn ccngagcgac nngccggccg ggcncagcg cagcncgnan 240
gccancncca nggaggaagc ngcagagcnc aagaacggga ggaagcanga gcnngcggng 300
cnnacncng cnggcagngg cagcnaccaa caaggncaag cnggcagcg ccaacaggag 360
gcacaacccc aga 373

<210> 13165
<211> 591
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-098-Q1-K7-H2
<400> 13165

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tcctatagct tcccttcttc ccccatacct ctaccagcg gtgtcttcaa tgtgtgaaaa 180
cccaattggt caacctaca ggatccaaca ggcaatcgca acaggcatct taccattatc 240
acccttggtc ctccaacaac cgtcagccct attacagcag ttaccttggg tccatttggg 300
ggcacaaaac atcagggcac aacaactaca acaacttggt ctagcaaacc ttgctgcata 360
ctctcagcaa catcagtttc ttccattcaa ccaactgggt gcattgaact ctgctgctta 420
tttgcaacaa caattaccat tcagccagct agttgctgcc taccgccagc aatttcttcc 480
attcaaccaa ctagcagcat tgaactctgc tgcttattta cagcagcaac aactactacc 540
attcagccag ctagctgatg tgagccctgc tgccttcttg acacaacaac a 591

<210> 13166

<211> 659

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-K7-A1

<400> 13166

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ctattacaac agttaccttt ggtgcattta ttggcacaaa acatcagggc acaacaacta 180
caacaacttg tgctagcaaa ccttgctgcc tactctcagc aacagcagtt tcttccattc 240
aaccaactag gttcattgaa ctctgcttct tatttgcaac aacaacaact accattcagc 300
cagctacctg ctgcctacct ccagcaattt cttccattca accaactagc agcattgaac 360
tctcctgctt atttacagca gcaacaacta ctaccattca gccagctagc tgggtgtgagc 420
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ccagcagtg tctaccaaca acccatcatt ggtgggtgcc tcttttagat ttcttatgag 600
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<210> 13167
 <211> 486
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-099-Q1-K7-A10

<400> 13167

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 ccaactagct gcattgaaact ctgctttctta tttgcaacaa caacaactac cattcagcca 120
 gctacctgct gcctaccccc agcaattttct tccattcaac caactggcag cattgaactc 180
 tgctgcttat ttacagcagc aacaactact accattcagc cagctagctg gtgtgagccc 240
 tgctaccttc ttgatacaac cacagttggt gccgtttctac cagcacgctg cgcctaacgc 300
 tggcaccctc ttacaactgc aacaattgct gccattcaac caacttgctt tgacaaaccc 360
 agcagcgctt taccaacaac ccatcattgg tgggtgccctc ttttagattt cttatgagtt 420
 atagttcaat aataaagttt tttgtctgat gtttgtggct tcccagaaat aagaaagtac 480
 atttct 486

<210> 13168
 <211> 559
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-099-Q1-K7-A11

<400> 13168

cgggncgacc cagcgnncgg caacatagna aagcacaana gngnaccaa aagggcagcc 60
 aaanaagnnn gcnncnnan gcgcnnngn cnnncngcaa gngcngcnac cgcaaccann 120
 nccccacaan gcgcacaagc nccnanagcn gccnnncnnc ccccaaaccn cncaccagcg 180
 gngcnnncag nangggaggg gggggnncnnc aaccnncag ganccaacag gcaancgcag 240
 caggcancna accnnnanca cccnnggnce nccaacaacc gncagcccaa aaacagcagn 300
 naccnnnggn gcannngnng gcacaaaaca ncaaggcaca acaacnaca caacnngngc 360
 naggaaccn ngcngcncac ncnagcaac agcagnngcn nccaacaac caaccggcng 420
 canngaacc ngcngcnaaa angcaacaac aacnaccann cagncagcna gcngnngcca 480

acccccagca naggcnnngca gncaaccaac gggcagcann gaaccnngcn gcnngaggac 540
aacagcaaca gcnaccacc 559

<210> 13169
<211> 635
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-K7-A12

<400> 13169

attttcagca ttcaaaaaca caccaagcga agcgactag caacgaccta acaccaatgg 60
ctaccaagat attagccctc cttgcgcttc ttgccctttt agtgagcgca acaaatgcgt 120
tcattattcc acagtgtctca cttgtctcta gtgccattat tccacagttc ctcccaccag 180
ttacttcaat gggcttcgaa catccagccg tgcaagccta caggctacaa ctagcgcttg 240
cggcgagcgc cttacaacaa ccaattgccc aattgcaaca acaatccttg gcacatctaa 300
ccctacaaac cattgcaacg caacaacaac aacaacaaca gtttctgcc tcaactgagcc 360
acctagccgt ggtgaaccct gtcacctact tgcaacagca gctgcttgca tccaaccac 420
ttgctctggc gaacgtagct gcataccagc aacaacaaca gctgcaacag tttatgccag 480
tgctcagtca actagccatg gtgaaccctg ccgtctacct acaactactt tcacttagcc 540
cgctcgcggt gggcaatgca cctacgtacc tacaacaaca gttgctgcaa caaattgtac 600
cagctctgac tcagctagct gtggcaaacc ctgct 635

<210> 13170
<211> 609
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-099-Q1-K7-A2

<400> 13170

gcggtgcc gccaccgccc ccgntcatc taccgccc gccngcatctg ccacctccg 60
ttcaactgcc acctccggtg catctccac cgccggtcca cctgccgccc ccggtccacc 120
tgccaccgcc ggtccatgtg ccgccgccc ttcatctgcc gccgccacca tgccactggg 180
ggtgtcaacc gcccggcct cagcctcatc ccagccaca cccatgccc tgccaacagc 240

cgcatccaag cccgtgccag ctgcagggaa cctgcggcgt tggcagcacc ccgatcctgg 300
gccagtgcgt cgagtttctg aggcattcagt gcagcccgac ggcgacgcc tactgctcgc 360
ctcagtgccca gtcgttgccg cagcagtgtt gccagcagct caggcagggtg gagccgcagc 420
accggtacca ggcatcttc ggcttgggtcc ttcagtecat tctgcagcag cagccgcaaa 480
gcggccagggt cgcggggcgt ttggcggcgc anatagcgca gcaactgacg gcgatgtgcg 540
gcctgcagca gccgactcca tgcccctacg ctgctgccgg cgggtgtcccc cactgaagaa 600
actatgtgc 609

<210> 13171
<211> 603
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-099-Q1-K7-A3
<400> 13171

gcaacataga aagcacaata gngtaccac aatggcagcc aaaatatattt gcctccttat 60
gtccttggt ctttctgcaa gtgctgctac ggcgaccatt tcccacaat gtcacaagc 120
tcctatagct tcccttcttc ccccgtagct ctcaccagcg gtgtcttcgg tatgtgaaaa 180
ggcaattctt caaccctata ggatccaaca ggcaatcgca gctggcatct tacctttatc 240
acccttggtc ctccaacaat catcagccct attacagcag ttacctttgg tgcatttatt 300
ggcacaaaac atcagggcac aacaactaca acaacttggt ctagcaaacc ttgctgcta 360
ctctcagcaa caacagtttc ttccattcaa ccaactagct gcattgaact ctgcttctta 420
tttgcaacaa caacaactac cattcagcca gctatctgct gcctaccccc agcaatttct 480
ttcattcaac caactgacag ctttgaactc tctgcttat ttacaggagc aacaactact 540
accattcaac cagctagctg gtgtgagccc tgctaccttc ttgacacaac cacaattggt 600
ggc 603

<210> 13172
<211> 330
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-099-Q1-K7-A5

<400> 13172

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cccccccccc ccccccaaaa cccccaaaaa agacccccgg gggggggggg gggggagagg 60
gaaacgaccc accccccggg gggggggggg ggggggggga aaaaaaaccc ccccccccc 120
ccccgggggg gggggggccc cccccaaaaa aaaaaaaaaa gggggnggca nccccccgc 180
ccccccggg ggggnnncgc cccccggcgc ggggggggga aaaagaagag gaccaacccc 240
cccccccccc gcgggggggg ggggggggcc ccccccccc ccccccccc cnaaaaaaaaa 300
aaaaaaaaaa aaaaagaggg gagggggggg 330
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<210> 13173

<211> 640

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-K7-A6

<400> 13173

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ccttatgctc cttggtcttt ctgcaagtgc tgctaccgca accattttcc cacaatgctc 120
acaagctcct atagcttccct ttcttcccc atacctctca ccagcgggtgt cttcaggatg 180
ggggaaccca attcttcaac cctacaggat ccaacaggca atcgcagcag gcattcttacc 240
tttatcacc ttgttctctc aacaaccgtc agccctatta cagcagttac ctttggtgca 300
tttggttgca caaaacatca aggcacaaca actacaacaa cttgtgctag gaaaccttgc 360
tgctactct tagcaacagc agtttctttc attcaaccaa ctggctgcat tgaactctgc 420
tgcttatttg caacacaact accattcagt cagctagctg ctgcctaccc ccagcaattt 480
cttcattca accaactggc agcattgaac tctgctgctt atttacaaca gcaacagcta 540
ccaccattca gccagctagc tgatgtgagc cctgttgctt tcttgacacc aacacagttg 600
ttggcgggtc acctgcacgc tgcgcctaac gctggcaccc 640
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<210> 13174

<211> 531

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-099-Q1-K7-A8

<400> 13174

cgaacaacaa caacaaccgc agcaccaacg gcaacggggg caacaacagc accaacaaca 60
acancaaggg gaaggccaac aacaacanca ccaacaanca caaggccang ngcaacaaca 120
cgaacagagc cangagcaac accaaggaca gagccangag caacaacanc aacaacaagg 180
ggaagggcag gacaagcagc aacaaccaca acagccaaag caanancagc agggccagga 240
aaaancacaa cagcaacaan ggcanngcca ggagcagcaa cagaccacaa ggngcagcna 300
naacnaccan agcagnagcn caaaacnaaa aaanngncan gaannccnaa ggcagcagng 360
cagcccnnng gnaangccnn nncnccaanc acggnngana caaccaagna gcngccaggn 420
anngcagcaa caanggngnc angaacnnag gcaganngag ccacaanaca nncaccaagc 480
aancnacaac aaggngcaan ncanaaacca ggaggagcaa caacaacaac c 531

<210> 13175

<211> 636

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-K7-A9

<400> 13175

agcaacatag aaagcacaat agtgtaccaa caatggcagc caaaatattt tgcttcctta 60
tgctccttgg tctttctgca agtgttgcta ccgcaaccat tttcccacaa tgctcacaag 120
ctoctatagc ttcccttctt ccccatacc tctcaccagc ggtgtcttca atgtgtgaaa 180
acccaattgt tcaaccctac aggatccaac aggcaatcgc aacaggcatc ttaccattat 240
cacccttggt cctccaacaa ccgtcagccc tattacagca gttacctttg gtccatttgg 300
tggcacaaaa catcagggca caacaactac aacaacttgt gctagcaaac cttgctgcat 360
actctcagca acatcagttt cttccattca accaactggc tgcattgaac tctgctgctt 420
atttgcaaca acaattacca ttcagccagc tagttgctgc ctacccccag caatttcttc 480
cattcaacca actagcagca ttgaactctg ctgcttattt acagcagcaa caactactac 540
cattcagcca gctagctgat gtgagccctg ctgccttctt gacacaacaa cagttgttgc 600

cgttctacct gcacgctatg cctaacgctg gcaccc

636

<210> 13176

<211> 670

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-K7-B1

<400> 13176

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ttttgcttcc ttatgctcct tgggtctttct gcaagtgttg ctaccgcaac cattttccca 120
caatgctcac aagctcctat agcttccctt cttcôcccat acctctcacc agcgggtgtct 180
tcaatgtgtg aaaacccaat tgttcaaccc tacaggatcc aacaggcaat cgcaacaggc 240
atcttaccat tatcacctt gttcctccaa caaccgtcag ccttattaca gcagttacct 300
ttgggtccatt tgggtggcaca aaacatcagg gcacaacaac tacaacaact tgtgctagca 360
aaccttgctg catactctca gcaacatcag tttcttccat tcaaccaact ggctgcattg 420
aactctgctg cttatttgca acaacaatta ccattcagcc agctagtgtg tgcctacccc 480
cagcaatttc ttccattcaa ccaactagca gcattgaact ctgctgctta ttacagcag 540
caacaactac taccattcag ccagctagct gatgtgagcc ctgctgcctt cttgaccaac 600
aacagttggt gccgttctac ctgcacgcta tgcctaacgc tggcaccctc ttacaactgc 660
aacaattgct 670

<210> 13177

<211> 647

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-K7-B10

<400> 13177

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cgaggagggc caaggggaag aggggaagca ccgcaccagg acccttgctt gccgccgccg 120
cctctgatct ccgcgagggt gtcaggattc aatatgtcga ccagcacatt cgctacttgg 180
tgcacgctgt tgggcaatgt tagaacaacg caggcctccc agacagcggg gaagagccct 240

tcgtctctaa gcttcttcag ccaagttacg aaggttccaa gcctgaagac ctccaagaaa 300
ctggatgtct ccgccatggc tgtatacaag gtgaagcttg tcgggcctga aggtgaagag 360
cacgagtttg atgctccaga cgacgcctac atccttgacg cagccgagac tgccggtgtg 420
gagttgccat actcgtgccg tgctggggct tgctccacct gtgccggcaa aatcgagtct 480
ggttcggttg accagtcgga tgggtccttc cttgatgacg ggcagcagga ggaaggttat 540
gtgctgacat gcgtctccta cccaaagtcc gactgcgtca tccacacca caaggaaggc 600
gacctgtact agggctaggg ctttccaatt tggcgagggg caaaaat 647

<210> 13178

<211> 493

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-K7-B11

<400> 13178

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tgctcttttg tatcagggtt atttccacaa gcaacagaag agaacacaaa atcatcaaaa 120
tcctcaattg caactcgctt taagatacaa cttcatgaac tcatggagac tttgagctct 180
acagagccac attacataag atgtataaaa ccaaatagtg tccttaagcc tggcattttt 240
gagaatacca atgttctgca gcagcttcga tgttctgggtg ttcttgaagc cattagaatc 300
agctgtgctg gttatccac aaggaaacta tttcatgatt ttctacatcg ttttcgtgtt 360
cttgctcctg aaattttgaa agagaaaaat gatgaaaaag tctcctgtca aaaggttttg 420
gacaaaatgg gactacaggg ttatcagata ggaagaacta aggtatttct gagggctggg 480
caaatggctg atc 493

<210> 13179

<211> 598

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-099-Q1-K7-B12

<400> 13179

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aatgcagacc gctgggtggc tggtttctta gagaagtttg aggaaggggtg ccaactcaatg 120
gggacggcca tcaaggagag gatccaggag aggtcatca aggcacaatc cagcgacttt 180
ggcagcctcc tacagtacga cagctacgat tctgatgaag ccaaagaaaa cgacgaggac 240
gaagacgaac tctttgaaga cgtcaaggaa tagcacatcc gtacatatac aatgggttttg 300
tagctgcaaa ttgtgttggt agtcagttgc ctctctctgg ttggtgatct ttatatatgg 360
tctcaaaggt aggtcaggtt gcaatgtttg tagctgctct tgggtgtttgt tcaggcaacg 420
catggttgta aaagctgtgg aaagacttgt gcagtcaagg atacagattc cgatgggttac 480
ctttgggtta gaacatatac ggctgtaaaa ttggaagtcg aggtgggttaa aactctgaaa 540
tcttgtctgt tttccttccn aannaaaaaa aanaaaaaaa aaaaaaaaaa aananngg 598

<210> 13180
<211> 555
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-099-Q1-K7-B2
<400> 13180

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ttcgtgggtg ggcggatcga gatggcggcg tcggatgttg agtaccgctg cttcgtcggc 120
ggcctcgctt gggccacgga cgaccactcc ctccacaacg ctttcagcac ctacggcgag 180
gggctcgagt ccaagatcat cctcgatcgg gagacgcaga ggtcccgcgg cttcggcttc 240
gtcaccttct ccacggagga ggcgatgcgg aacgccatcg agggcatgaa cggcaaggag 300
ctggacggcc gcaacatcac cgtcaacgag gccagtcctc gcggcgggcg tggaggcggc 360
ggcggcggct acggtgggtg ccgtggaggc ggcggtacg gcggtggcgg gcgccgtgat 420
ggcggcggcg gctaccgcg tggcgggcg gcgtacggtg gcggcggtgg ctaccgtggt 480
ggtggtggcg gctaccgcg tggcaaccgt tgcggcggtt acggcaactt cgacgggaac 540
tggaggaact gagcg 555

<210> 13181
<211> 605
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-099-Q1-K7-B5

<400> 13181

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tgctacctgt gatcaaccaa gtagctctgg caaacctttc tccctactat cagcaacaac 120
aatttcttcc attcaaccaa ctatctacac tgaacctgc tgcttatttg cagcaacaac 180
tattaccatt caggcggcta gctactgcct actctcatca acaacaactt cttccattta 240
accaattggc cgactgaac ctgctgctt atttgcagca gcaaatatta ctaccattta 300
gccagctagc tgcagcaagc cgtgcttctt tcttgacaca gcaacagttg ctgcctttct 360
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tccaacttgc tttgacaaac ccagcagcct cctaccaaca acacatcatt ggtggtgccc 480
tcttttagat tgcttattag ttgtaattca ataataaagt tttttggatg atgtatgtgg 540
ccaaccagaa ataagaagtt acatttccag attctaattg gaaaaaaaaa aanccannnn 600
nnnaa 605

<210> 13182

<211> 470

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-099-Q1-K7-B6

<400> 13182

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ggacanngng gngnccagng gcagagcnaa cccgagcgcc cngaacaaga acngcagnnn 120
cgcnngcgcc gngaaagcca gcagcgangn agcngagacc gcaagcgncc cgagcgggga 180
gggagcnccc gcnnngnna gagngacang nngnncaaaa annngcngg aaggaagggc 240
ccnngagcnn aggacaggca ggaagncnng gggcccacgn agngagngna caannncngn 300
ancncaaana ccgngcncgn ngccagnnng naccgnacca nananaaacc anagaancng 360
nngccacnna gaagncnggc caagggcagc ngnaaggcnn cacaagcna nagccnggaa 420
acannagaca nngaaaaacc cgagcagnga anaaaggang cccaaggng 470

<210> 13183
 <211> 141
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-099-Q1-K7-B8

 <400> 13183

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 atccatctga ttcccacca cccgcgcaga cgcagctgca ttccgcgac ccaggcggcg 120
 ggaggcngct cttgatgcta g 141

<210> 13184
 <211> 569
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-099-Q1-K7-C11

 <400> 13184

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 agctcctata gcttcccttc ttccccgta cctctcacca ggggtgtctt cggtatgtga 180
 gggcccaatt cttcaacct ataggatcca acaggcaatc gcagctggca tcttaccttt 240
 atcacccttg ttccttcaac aatcattagc cctattacag cagttacctt tggtgcattt 300
 attggcacia aacattaggg cacaacaact acaacaact gtgctagcaa accttgctgc 360
 ctacttttaa caacaacagt ttctttcatt caaccaacta gctgcattga actctgcttc 420
 ttatttgcaa caacaacaac taccattcaa ccagctatct gctgcctacc ccagcaatt 480
 tctttcattc aaccaactga cagctttgaa ctctcctgct tatttacagg agcaacaact 540
 actaccattc aaccagctag ctgggtgtga 569

<210> 13185
 <211> 405
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-099-Q1-K7-C12

<400> 13185

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cagcaacanc agnnncncc aaacaaccaa cnggcngcan ngaacncngc gggggggggg 120
caacaacaan naccanncag ccagcnagnn gcngccnacc cccagcaann ncnnccannc 180
aaccaacnag cagcanngaa cncngcngcn nannnacagc agcaacaacn acaaccannc 240
agccagcnag cngangngag cccngcngcc nncnngacac aacaacagnn gnngccgnnc 300
naccngcacg cnangccnaa cgcnggcacc cnnnaacaac ngcaacaann gcngccannc 360
aaccaacnng cnnngacaaa cccaacagng nncnaccaac aaccc 405

<210> 13186

<211> 502

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-K7-C2

<400> 13186

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ccagctagct actgcctact ctcatcaaca acaacttctt ccatttaacc aattggccgc 180
actgaacctc gctgcttatt tgcagcagca aatattacta ccatttagcc agctagctgc 240
agcaagccgt gcttccttct tgacacagca acagttgctg cctttctacc agcagtttgc 300
ggctaacccc gcaaccctct tacaactaca acaattgttg ccctttgtcc aacttgcttt 360
gacaaaccca gcagcctcct accaacaaca catcattggg ggtgcctctt tttagattgc 420
ttattagttg taattcaata ataaagtttt ttggatgatg tatgtggcca accagaaata 480
agaagttaca tttccagatt ct 502

<210> 13187

<211> 649

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-099-Q1-K7-C3

<400> 13187

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acaagctcct atagcttccc ttcttcccc atacctctca ccagcgatgt cttcagtatg 180
ggaaaatcca attcttctac cctacaggat ccaacaggca atcgagcag gcattctacc 240
tttatcacc ttgttctctc aacaatcatc agccctatta cagcagttac ctttggtgca 300
tttattggca caaaacatca gggcacaaca actacaacaa ctctgtctag caaaccttgc 360
tgctactct cagcaacagc agttaccttt ggtgcatttg ttggcacaaa acatcagggc 420
acaacaacta caacaactcg tgctagcaaa ccttgcctgc tactctcagc aacaacagtt 480
tctgccattc aaccaactag ctgcattgaa ctctgtctgt tatntgcagc aacaacaact 540
actaccattc agccagctag ctgctgccta ccccgaggaa tttttttcat tcaaccaact 600
ggcagcattg aactctcatg cttatgtaca acaacaacaa ctactacca 649

<210> 13188

<211> 618

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-K7-C4

<400> 13188

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caagatattt tccctcctta tgctccttgc tctttctgca tgtgttgcta acgcgacaat 120
tttccctcaa tgctcacaag ctcttatagc ttcccttctt ccccatacc ttccatcaat 180
gatagcttca gtatgtgaaa acccagctct tcagccctat aggetccaac aagcaatcgc 240
agcaagcaac atacctttat cacccttggt gtttcaacaa tcgccagccc tatctttggt 300
gcagtcattg gtacaaacca tcagggcaca gcagctgcag caactcgtgc tacctgtgat 360
caaccaagta gctctggcaa acctttctcc ctactctcag caacaacaat ttcttccatt 420
caaccaactg tctacactga acctgctgc ttatttgcag caacaactat taccattcag 480
ccagctagct actgctact ctgagcaaca acaacttctt tcatttaacc aattggccgc 540

actgtacccc gctgcttatt tgcagcagca aatactacta ccatttagcc agctagctgc 600
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<210> 13189

<211> 304

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-099-Q1-K7-C5

<400> 13189

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ngcgatgttn gcggcctnng cagcagccga ctttccatgc cnnccctacgc tnnngctgccg 180
nngcgggtgc nccccactg annagaaact atgtnnngctg tagtatagcn cnnngctggct 240
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<210> 13190

<211> 630

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-K7-C6

<400> 13190

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gcgaccattt tcccacaatg ctcacaagct cctatagctt cccttcttcc ccggtacctc 180
tcaccagcgg tgtcttcggg gggggaaaac ccaattcttc aaccctatag gatccaacag 240
gcaatcgcag ctggcatctt acctttatca cccttggttc tccaacaatc atcagcccta 300
ttacagcagt tacctttggg gcatttattg gcacaaaaca tcagggcaca acaactacaa 360
caacttgtgc tagcaaacct tgctgtctac tctcaacaac aacagtttct tccattcaac 420
caactagctg cattgaactc tgcttcttat ttgcaacaac aacaactacc attcagacag 480
ctatctgctg cctaccccca gcaatttctt ccattcaacc aactgacagc tttgaactct 540

cctgcttatt tacagcagca acaactacta ccattcatcc agctagctgg tgtgagccct 600
gctacctttt tgacacaacc acaattgttg 630

<210> 13191

<211> 466

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-K7-C7

<400> 13191

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tggttcaatt gcgctaagtt caatagtat tctgctgaga aatctgagct cgtttgagaa 180
ctgttggaaca ttggggggga gtgagtttta atcttgaata tagatgactt gttgagggat 240
taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaac 300
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aggggggggc gccttaaagg 360
accaaagcta acgtccccgg gcttgcaacg taatagcttt tttaaagggg ccccaaaata 420
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<210> 13192

<211> 579

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-K7-C8

<400> 13192

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agctataact actatagcag tagctcaaat ctaaaaaatt gtcatgaatt cctaaggcag 180
cagtgcagcc ctttggaat gccttttctc caatcacgtt tgatacaacc aagtagctgc 240
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caagcaatct acaacatggt tcaatccata atccaggagg agcaacaaca acaacctatg 360
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tacctaccat caatgtgctg cttgtaccac tcatactacc aaaataatcc atgcagcagc 480
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aacggtgtta agcaataaag taccatacat tatgatgtt 579

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<211> 601
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-099-Q1-K7-C9
<400> 13193

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ggctagtgtg gcaagccctt gagcgtgctg atgagagcca aaagcgcatt ctatttgaaa 180
attatggcaa gaaagatcca gcctgtgtgg caaaagtga gaacctctac aaagaacttg 240
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acaagaggca gaagtagggt gctcttgat aaacgagctc aggagtcgtt actccttcgc 420
atgcttgaca taaccggact tctcacctg gttgctctag tatgatgtgg agcgtctagt 480
taaaaaaat cgatgtagta tgaagcacct tgctgctctg aatattaaca ggcaattaag 540
gcaaggtgct gtttcggttt ggtggaccgc atgttgacaga taataaatta gttgttntgt 600
c 601

<210> 13194
<211> 650
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-099-Q1-K7-D10
<400> 13194

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cacaatgctc acttgctccg agtgccatta ttccacagtt cctccctcca gttacttgaa 180
 tgggcttcga acaccagct gtgcaagcct ataggctaca acaagcgctt gcggcgagcg 240
 tcttagaaca accaattgcc caattacaac aacaatcctt ggcacatcta accatacaaa 300
 ccatcgcaac gcagcagcaa caagcactga gccacctagc cgtgggtgaac cctatcgctt 360
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 aacaacaaca acagttgcaa cagtttctac cagcgctcag tcaactagcc atgggtgaacc 480
 ctatcgctta cctacaacag caacaacttc tttcatctag cccgctcgct atgggcaatg 540
 cacctacata cctgcaacaa cagttgttgc aacaacagtt gctgcaacaa attgtaccag 600
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<210> 13195
 <211> 646
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-099-Q1-K7-D12
 <400> 13195

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 ttttccctca atgctcacia gctcctatag cttcccttct tccccatac cttccatcaa 180
 tgatagcttc agtatgtgaa aaccagctc ttcaacccta taggctccaa caagcaatcg 240
 cagcaagcaa cataccttta tcacccttgt ttcaacaatc gccagccta tctttggtgc 300
 agtcattggt acaaaccatc aaggcacagc agctgcagca actcgtgcta cctgtgatca 360
 accaagtagc tctggcaaac ctttctccct actatcagca acaacaattt cttccattca 420
 accaactatc tacactgaac cctgctgctt atttgcagca acaactatta ccattcagcc 480
 agctagctac tgccctactct catcaacaac aacttcttcc atttaaccaa ttggccgcac 540
 tgaacctcgc tgcttatttg cagcagcaaa tattactacc atttagccag ctagctgcag 600
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<210> 13196
 <211> 495

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-099-Q1-K7-D2
 <400> 13196

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cagcagcaaa tattactacc atttagccag ctagctgcag caagccgtgc ttccttcttg 240
acacagcaac agttgctgcc tttctaccag cagtttgccg ctaacccgcg aacctcttta 300
caactacaac aattgttgcc ctttgtccaa cttgctttga caaacccagc agcctcctac 360
caacaacaca tcattggtgg tgccctcttt tagattgctt attagttgta attcaataat 420
aaagtttttt ggatgatgta tgtggccaac cagaaataag aagttacatt ttcagattct 480
aatgtgatat tgggt 495
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<210> 13197
 <211> 690
 <212> DNA
 <213> Zea mays
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 <400> 13197

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gcgttcatta ttccacaatg ctcacttgct ccgagtgcc a ttattccaca gttcctccct 180
ccagttactt caatgggnct gggaacaccc agctgtgcaa gcctataggg tacaacaagc 240
gcttgccggcg agcgtcttag aacaaccaat tgccaatta caacaacaat ccttagcaca 300
tctaaccata caaaccatcg caacgcagca gcaacaagca ctgagccacc tagccgtggg 360
gaaccctatc gcctacttgc aacaacagct gcttgcattc aaccacttg ctttggcaaa 420
cgtagctgca taccaacaac aacaacagtt gcaacagttt ctgccagcgc tcagtcaact 480
agccatgggtg aaccctatcg cctacctaca acagcaacaa cttctttcat ctagcccgct 540
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cgctatgggc aatgcaccta catacctgca acaacagttg ttgcaacaac agttgctgca 600
 acaaattgta ccagctctta ctcagctagc tgtggcaaac cctgctgcct acttgcaaca 660
 actacttnca ttcaaccaac tgactgtgtc 690

<210> 13198
 <211> 665
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-099-Q1-K7-D4
 <400> 13198

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 gccatggtga accctgccgc ctacttgcaa gagcagctgc ttgcatccaa cccacttgct 180
 ctggcgaaac tagttgcaaa ccagcaacaa caacagctac aacagtttct gccaacgctc 240
 agtcaactag ccatggtgaa ccctgccgcc tacgtacaac aacaacaact gctttcatct 300
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 gtaccagctc tgactcaact agctgtggca aaccctgttg cctacttgca acagctgctt 420
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 ctgccataca accagttctc tttgatgaat cctgtcttgt cgaggcagca acccatcggt 600
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<210> 13199
 <211> 654
 <212> DNA
 <213> Zea mays
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 <400> 13199

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 aacctagtcg ccaactctgct cgcgcacaag ttgggagtca ctcagtgtac catcgctcat 120

gccttggaga aaaccaaata ccccaactcg gacatatact tggacaaatt cgacagccag 180
taccacttct cttgccagtt cacagctgac cttattgcca tgaaccacac cgatttcac 240
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cacatcgct tcaactcttc tgggctctac cgtgtcgtcc atggcatcga tgttttcgat 360
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accgacaaga gactcactgc cttccatcct gaaatcgagg agctcatcta cagcgacgtc 480
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gcgcgtctcg accgcgtgaa gaacatgaca ggctggctcg agatgtacgg caagaacgcg 600
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<210> 13200
<211> 99
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-K7-D7

<400> 13200

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<210> 13201
<211> 664
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-K7-D8

<400> 13201

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<210> 13202

<211> 638

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-K7-D9

<400> 13202

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 ctctcagcaa cagcagtttc ttccattcaa ccaactagct gcattgaact ctgcttctta 420
 tttgcaacaa caacaactac cattcagcca gctacctgct gcctaccccc agcaatttct 480
 tcattcaac caactggcag cattgaactc tctgcttat ttacagcagc aacaactact 540
 accattcagc cagctagctg gtgtgagccc tgctaccttc ttgatacaac cacagttggt 600
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<210> 13203

<211> 608

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-K7-E1

<400> 13203

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 gtgggagcct ccaacattgg gtttgccctt gctgtaattt tttgttgga agtccatata 240
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<210> 13204
 <211> 342
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 13204

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<210> 13205
 <211> 631
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-099-Q1-K7-E11

<400> 13205

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agttgtgctc actagttgat ttagttcatg ccgttatggg tgtctttcca ttgctaggag 180
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agagcacaga aaaatgttga ggatgaaagt tgtcaaatac cccttggtaa ccttcgttca 600
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<210> 13206

<211> 246

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-099-Q1-K7-E12

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cggcgcagcn cacgccgggc gcggggccgg cgcngnncgg cggngcggng cggggggggg 180
gcngcgcgca ncngcnngcg cagnagggga gccngngngg gnnccngcgc nggggcnccc 240
gcggggg 246

<210> 13207

<211> 667

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-099-Q1-K7-E2

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ctttctcggc ggccattgga ggggtgttcc cngtgctgag cttccagggt catgngattc 660
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<210> 13208

<211> 667

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-099-Q1-K7-E3

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cgtggtgaac cctgtcacct acttgcaaca gcagctgctt gcatccaacc cacttgctct 420
ggcgaacgta gctgcatacc agcaacaaca acagctgcaa cagtttatgc cagtgtcag 480
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ggtgggcaat gcacctacgt acctacaaca acagttgctg caacaaattg taccagctct 600
gactcagcta gctgtggcaa accctgctgc ctacttaciaa cagttgnctt cattcaacaa 660
ctggctg 667

<210> 13209
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-K7-E4

<400> 13209

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<210> 13210
<211> 601
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 13210

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gcgtccatta ttccacaatg ctactggct cctagttcca ttattccaca gttcctccca 180
ccagttactt caatggcggg ggagaacca gctgtgcaag cctataggct acaacaagcg 240
attgcggcga gcgttttaca acaaccaatt gcccaattgc aacaacaatc cttggcacat 300
gtaacaatac aaaccatggc aacgcaacag caacaacagt tctaccagc actgagccac 360

ctagccatgg tgaaccctgt cgcctacttg caacagcagc tgcttgcatc caaccacta 420
gctctagcaa acgtagtgtc aaaccagcaa caacaacaac tgcaacagtt tctgccagcg 480
cttagtcaac tagccatggg gaaccctgcc gnctaccgac aacagcaaca actgatttca 540
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a 601

<210> 13211

<211> 522

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-K7-E6

<400> 13211

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taataagtct cgtgcaggcg aaggacgtac gacgacgagg acgcaccgtc aaagtctaca 120
ggctgcgcaa tccctttctc cctcttatcc ccaaggcgag gagctgaggg gggggggggg 180
cggttctgct gctgttcttg tttccccgct ctccaagatg tcgtccccga gcaagcgccg 240
cgagatggac cttatgaagc tgatgatgag cgactacaag gtcgagatgg tgaacgatgg 300
gatgcaggaa ttcttcgtcg aattcaaggg gccggccgaa agtaatagcc ctgcgctga 360
atcccggttg ctcttctctc tccctgcctc ccgtgctgat ggtgcaogct cctgattctg 420
atctagatgt tgtgggggtg aagttcagtt tcaggaaaac tgccagtctc cactgttgat 480
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<210> 13212

<211> 586

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-K7-E7

<400> 13212

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atctagtaga gaggctagta ggtggtcctc gaacgaagat gttggcggtg ttcagcgggc 120
aggtggtgga ggtgccggcg gagctggtgg cggcgggcag ccggacgccc tcgcccaggg 180

cgaaggcgtc gcagctcgtg gggcgcttcc tggccgcgtc cgagccggcc gtgtccgtgc 240
 agctcggcga ccacggccac ctgcctact cccacaccaa ccaggcgtc ctccgcccc 300
 ggtcgttcgc ggccaaggac gaggtgttct gcctgttcga aggggtgctg gacaacctgg 360
 gtcggctgag ccagcagcac gggctgtcaa gcaagggcgc caacgaggtg ctctcgtca 420
 tcgaggccta caagacgtg cgcgaccgcg cgccctaccc ggccagcttc atgctcgccc 480
 agtcaccgg ctctacgcc ttcgtctct tgcacaagtc caccaactcc ctgctcgctg 540
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<210> 13213

<211> 526

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-K7-E8

<400> 13213

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 ttccatctca aaggatagaa caatgggcgg tctctocacc aagcttttcg tggctctcct 120
 cctgctcggt tggtacaccg ggacgcaagg cgggcgggtg actatgggtg cggcgaggag 180
 gggcgagtcg cagagcttcc gttcaaggg accttgctcg agggacgcca actgcgcaaa 240
 cgtctgctcg accgaaggtt tcaccggcgg cgtgtgcaag ggctacgcc accgctgctt 300
 ctgcaccagg gactgctagt actgcctcgt ctgcctcgc ctgggctcgt gtcctgctg 360
 tgcatagccg cagcggatca gtaaaacatg catgcatgcg ttaccgaata tttggcagta 420
 ccagcaagtt aatggattaa ataatatgta atggaacaaa gcctgttttg aacgttgaac 480
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<210> 13214

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-K7-E9

<400> 13214

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ccttgcaaag aggctcgagc tgtaccggag tgcccaatcc gaaattgatg ccggttgcattg 120
gtccaaatag tcctgatggc caagatatct gttcttacct cttgtctggc gattctctct 180
cctattctgg ggcataatata gctgattttt cgtggtttag gtcagggtcat tttatatatc 240
accggagctg tacgggtgtca tgttccttgt gcttgaggat ctaggggggg cacttgtatc 300
tcgaacaagt tcttacatcg cgctttcggt ccattct 336

<210> 13215

<211> 644

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-099-Q1-K7-F11

<400> 13215

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tggcgaccaa gatactttcc ctcccttatgc tccttgctct ttctgcatgt gttgctaacy 120
cgacaatttt ccctcaatgc tcacaagctc ctatagcttc ccttcttccc ccataccttc 180
catcaatgat agcttcagta tgtgaaaacc cagctcttca accctatagg ctccaacaag 240
caatcgagc aagcaacata cctttatcac ccttggttca acaatcgcca gccctatctt 300
tggtgcagtc attggtacaa accatcaagg cacagcagct gcagcaactc gtgctacctg 360
tgatcaacca agtagctctg gcaaaccctt ctccctacta tcagcaacaa caatttcttc 420
cattcaacca actatctaca ctgaaccctg ctgcttattt gcagcaacaa ctattaccat 480
tcagccagct agctactgcc tactctcatc aacaacaact tcttccattt aaccaattgg 540
ccgcactgaa cctcgctgct tatttgagc agcaaatatt actaccattt agccagctag 600
ctgcagcaag ccgtgcttnc ttcttgacca gcaacagttg ctgc 644

<210> 13216

<211> 577

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-099-Q1-K7-F12

<400> 13216

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 ttttgcttcc ttatgctcct tgggtctttct gcaagtgttg ctaccgcaac cattttccca 120
 caatgctcac aagctcctat agcttccctt cttcccccat acctctcacc agcgggtgtct 180
 tgaatgtgtg aaaaccaat tgttcaaccc tacaggatcc aacaggcaat cgcaacaggc 240
 atcttaccat tatcaccctt gtttcttcaa caaccggcag ccctattaca gcagttacct 300
 ttgggtccatt tgggtggcaca aaacatnagg ggacaacaac tacaacaact tgtgctagca 360
 aaccttgctg gatactctta gcaacatcag tttctttcat tcaaccaact ggctgcattg 420
 aactctgctg cttatttgcg acaacaatta ccattcaacc agctagttgc tggctaagccc 480
 cagcaatttg tttcattcaa ccaactagca gcattgaact ctgctgggta ttttcagggg 540
 gaacaactac taccatttan ccacctagct gatgtga 577

<210> 13217
 <211> 397
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-099-Q1-K7-F2

<400> 13217
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 agnnncncc anncaaccaa cnagcngcan ggaacnngc gncnnannng caacaacaac 120
 aacnaccann cagccagcna ccggcngccn acccccaggg gggcgggcan ncaaccaacg 180
 ggcagcanng aacnncggg cnnannnaca gcagcaacaa cnacnaccan ncagccagcn 240
 agcnggngng agcccngcna ccnncnngan acaaccacag nngnngccgn ncnaccagca 300
 cgcngcgccn aacgcnggca ccnncnnaca acggcaacaa nngcngccan ncaaccaacn 360
 ngcnnggaca aaccagcag cgnncnacca acaaccc 397

<210> 13218
 <211> 670
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-099-Q1-K7-F4
 <400> 13218

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gctccttggc ctttctgcaa gtgctgctac cgcaaccatt ttcccacaat gctcacaagc 120
tcctatagct tcctttcttc ccccatacct ctcaccagcg gtgtcttcag tatgtgaaaa 180
cccaattctt caaccctaca ggatccaaca ggcaatcgca gcaggcatct tacctttatc 240
acccttggtc ctccaacaac cgtcagccct attacagcag ttacctttgg tgcatttggt 300
ggcacaaaac atcaaggcac aacaactaca acaacttggt ctaggaaacc ttgctgccta 360
ctctcagcaa cagcagtttc ttccattcaa ccaactggct gcattgaact ctgctgctta 420
tttgcaacaa caactaccat tcagtcagct agctgctgcc taccgccagc aatttcttcc 480
attcaaccaa ctggcagcat tgaactctgc tgcttattta caacagcaac agctaccacc 540
attcagccag ctagctgatg tgagccctgt tgccttcttg aacaacaaca gttgttgccg 600
ttctactgca cgctgcgcct acgctgcacc ctctacactg cacaatgctg cattcaccaa 660
ctgcttgaca 670

<210> 13219

<211> 612

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-K7-F6

<400> 13219

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caagatattt tccctcctta tgctccttgc tctttctaca tgtgttgcta acgcgacaat 120
tttccctcaa tgctcacaag ctccatagc ttcccttctt ccccatacc ttccatcaat 180
tatagcttca gtatgtgaaa acccagctct tcaaccatat aggcttcaac aagcaatcgc 240
agcaagcaac atacctttat cgccttggt gtttcaacaa tcaccagccc tatctttggc 300
gcagtcattg gtacaaacca tcagggcaca acagctgcag caactcgtgc tacctgtgat 360
caaccaagta gctctggcaa acctttctcc ctactctcag caacaacaat ttcttccatt 420
caaccaactg tctacactga acctgctgc ttatttgag caacaactat taccatttag 480
ccagctagct actgctact ctcagcaaca acaacttctt ccatttaacc aattggccgc 540
actgaacccc gctgcttatt tgcagcagca aatactactg ccatttagcg agctagctgc 600

agcaagtcgt gc -

612

<210> 13220
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-K7-F7

<400> 13220

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aggattttcc gagctggtgt ggtgaatgcc agcgcgaaaa gagggaaagg cagagtcagt 120
gtgttaaagc aacgaagatg gcctttctca ggggttctgg aggtgcagcg atttaatttg 180
tggtaggcca tttatgttat atactgtttt gcgtcatact gaacttcacg gtttaggact 240
tgacaggggc attgtatcga tggccagctt tgtgctagtg cgtttattgg tgcgatccca 300
gttgatatgta aatgtaaaca ttgaccaaata gcagccgaaa gaaatgtaat agcgggtcat 360
aaactgctat gaatttggat 380

<210> 13221
<211> 635
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-K7-F9

<400> 13221

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ccatataggc ttcaacaagc aatcgagca agcaacatac ctttatcgcc cttgttggtt 120
caacaatcgc cagccctatc tttggtgcag tcattggtac aaaccatcag ggcacaacag 180
ctgcagcaac tcgtgctacc tctgatcaac caagtagctc tggcaaacct ttctccctac 240
tctcagcaac aacaatttct tccattcaac caactgtota cactgaaccc tgctgcttat 300
ttgcagcaac aactattacc atttagccag ctagctactg cctactctca gcaacaacaa 360
cttcttccat ttaaccaatt ggccgcactg aaccccgctg cttatttgca gcagcaata 420
ctactaccat ttagccagct agctgcagca aaccgtgctt ccttcttgac acagcaacag 480
ttgctgcctt totaccagca gtttgcggtt aaccccgcaa cctctttaca actacaacaa 540

ttgttgcctt ttgtccaact tgctttgaca gaccagcg cctcctacca acaacacatc 600
attggtggtg ccctctttta gattgcttat tagtt 635

<210> 13222

<211> 606

<212> DNA

<213> Zea mays

<223> unsure.at all n locations

<223> Clone ID: LIB3061-099-Q1-K7-G1

<400> 13222

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ggcggctgtg gctgccagac accaccgttt catctaccgc ctccgttcta tatgccgcct 180
gggggctatc tgccgcccga gcagcagccg cagccatggc aataccccac tcaaccaccg 240
cagctaagcc cgtgccagca gttcgatcc tgccggctcg gcagcgtcg cagcccgttc 300
ctggggcagt gcgtcgagtt cctgaggcac cagtgcagcc cggcggcgac gccctacggc 360
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ttgcaccggt accaggcgac atacggtgtg gtccctgcagt ccttcctgca gcagcagccg 480
cagggcgagc tcgcgggcgt gatggcgcc caggtagcgc agcagctgac ggcgatgtgc 540
ggcctgcagc tgcagcagcc aggttcctg cccttgcaac gcagctgccg gcggtgtcta 600
ctactg 606

<210> 13223

<211> 260

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-099-Q1-K7-G10

<400> 13223

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nncaccagc ggngncnncn gnanngaaa acccaagggg ggaaccnnc agganccaac 120
aggcaancgc agcaggcanc naaccnnan cccccngnn cnccaacaa ccgncagccc 180

nannacagca gnnaccnnng gggcannngg nggcacaaaa cannaaggca caacaacnac 240
aacaacnng gccaggaaac 260

<210> 13224

<211> 630

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-099-Q1-K7-G12

<400> 13224

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taatctattg ccgtgccgta gaagcggaag ctactggacg aggggctgga gcggaagcgg 120
gaggcggaac tcaatgagct ttacgatgcc atgaaagatt gggtcagcga actcaggagg 180
gacaatgcgg aactcaacga gaagctggtg gagaagcagg atgagctcga gaaggcccg 240
caggaattnc ttgaagatat tcgtacaagg gacgctgaaa ttctgaagct gaagcagctc 300
ttagatgaga aggctgaaaa aaacaattct gcagctactg ggtttccttg cctagcgct 360
gaagctgtcc tagaaaattc aactccattg tcacctaaaa gaaagacacc attttcccac 420
ggcaagcagc tagaatgctc cagaagacat acacgcctct cagggaatag gacaacagag 480
attcggagtg ctcatatgct ttctttgctg cttcaatctt tagttcgcct gaagatctcg 540
gtaaatgatg gaacagaaat attttccggt tcagtatctc atgaagctag gggttaccag 600
ttgatgctga cctggctaga acatttgatg 630

<210> 13225

<211> 667

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-K7-G3

<400> 13225

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ttttgcttcc ttatgctcct tggcttttct gcaagtgttg ctaccgcaac cattttccca 120
caatgctcac aagctcctat agcttccctt cttcccccat acctctcacc agcgggtgtct 180

tcaatgtgtg aaacccaat tgttcaaccc tacaggatcc aacaggcaat cgcaacaggg 240
atcttaccat tatcaccctt gtctctccaa caaccgtcag ccctattaca gcagttacct 300
ttggtccatt tgggtggcaca aaacatcagg gcacaacaac tacaacaact tgtgctagca 360
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aactctgctg cttatttgca acaacaatta ccattcagcc agctagttgc tgcctacccc 480
cagcaatttc ttccattcaa ccaactagca gcattgaact ctgctgctta ttacagcag 540
caacaactac taccattcag ccagctagct gatgtgagcc ctgctgcctt cttgaccaac 600
aacagttggt gccgtttctac ctgcacgcta tgcctaacgc tggcacccctc ttacaactgc 660
aacaatt 667

<210> 13226
<211> 611
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-099-Q1-K7-G4
<400> 13226

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cacttatgtc atagaactaa ttctcacgaa gaatcagaat aagatagaac ttaccaaacc 120
gacccttaca tacactgatg ctgacacata caaacagaca cacgcacata ctgagagaca 180
cgggcatgtc gacacacaca tacgaccata atatatagga ggcatacaca ctaaaacgaa 240
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cgagcacgga aaatggcaag acaagagagc gacaccacca aacatgcatg catgggtatg 360
ctagttcaca tgacactgca cgagggcccg ccgcccctgcc tgggttgggg gtggtggggc 420
gccatgctgc tgctgctgcg cgcgctggca gtcggcgctg gcgtcgtcct cgggtgccgat 480
ggaacagcca ggctcgcact ggtcgccacc agcgtcggcg taggcggtag catcggtctc 540
atcatcagcg tacgcgggcg cgcgggcgcg gtgcagcatc agcacgtacg ccagctgcgt 600
gacggccagc a 611

<210> 13227
<211> 515
<212> DNA

<213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-099-Q1-K7-G5

<400> 13227

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 gccagccacc gccgcgggtt catctaccgc cgccggtgca tctgccacct ccggttcacc 180
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 gccagtcggt gcggcagcag tggtgtcagc agctc 515

<210> 13228
 <211> 655
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-099-Q1-K7-G6

<400> 13228

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 ctaccaagat attatccctc tttgcgcttc ttgccctttt tgtgagcgca acaaatgcgt 120
 tcattattcc acaatgctca cttgctccta gtgccattat tccacagttc ctccctccag 180
 ttacttcaat gggcttcgaa caccagctg tgcaagccta caggctacaa caagcgcttg 240
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 ccatacaaac catcgcaacg caacagcaac aacaatttct accagcactg agccaactag 360
 ctgtggtgaa ccctgtcgcc tacttgcaac agcagttgct tgcacccaac ccacttgctc 420
 tggcaaacat agttgcatac caacaacaac aacaattgca acagtttcta ccagcgctca 480
 gtcaactagc catggtgaac cctgccgcct acctacaaca gcaacaactg atttcatcta 540
 gccctctcgc tgtgggtaat gcacctacat acctgcaaca acagttgctg caacagattg 600

taccagctct gactcagcta gctgtggcaa accctgctgc ctacttgac agctg 655

<210> 13229

<211> 645

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-K7-G7

<400> 13229

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tcctcaagct catgatagtg ttcttggaaat cattctggga ggtgggtgctg ggactagatt 180
gtaccccttg acaaagaagc gtgccaaagcc tgcagtgccca ttgggtgccca actatagact 240
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gcaatttaac tctgttccc tcaaccgtca cctctcaaga gcctacggga gcaacattgg 360
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aaactggttt cagggtactg cagatgctgt aaggcagtac ttgtggttgt ttgaggagca 480
taatgtgatg gaatttctaa ttcttgcctg cgatcacctg taccggatgg actatgaaaa 540
gttcattcag gcacacagag aaacaaatgc tgatattacc gttgctgccc taccgatgga 600
tgagaaaacgt gcaactgcat ttggcctcat gaaaattgat gaaga 645

<210> 13230

<211> 635

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-099-Q1-K7-G8

<400> 13230

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cttgtccgca tttgccagcg ccgccacggt gaccaagacg ctgcttgaca aggcgccggg 180
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acacactggg cccggccctg cgccgggctt cttggctgga catgcaccta cacctgccct 300
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 tgcagatcag aagaacaacg cagcaaggga cactgcatct tggactatcg gcgcggtgct 540
 ggcgatcgtg tgccctctgt cgtgaagggg taagcttaga tagattgacg ccgattggga 600
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<210> 13231

<211> 548

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-K7-G9

<400> 13231

gcaaagaagg gcagtgagca aaagtcacta gatactttta ttccaaagtc cgagagtgc 60
 tttgcggaat acgcggagct tattgcaaac aaactacgcc cctatgagaa aagctttcac 120
 tacatggctc tgcttaagaa tgtcatgaga ctttccatga catcggtgaa aggggcggac 180
 gccaaagata tattttcttt cgtgaccgca attgcttacg agaagatcaa gggtgagaag 240
 gaggctgcag caggccaaaa gaaacaaggg gcgaaaaaga agccactcca cattgagaaa 300
 ggagacgacg acttcattcc cgggcggggg ggtggctacc atgacccga tgagtaccac 360
 ttcatgtgat ctggctggga gggatagtag ggttctgtta tgtatacctt tggcgggccg 420
 agaatatatc actagagttt gcggcatact attgcatgga gcatgcgtta tctattcgag 480
 aatgattttt gactctgcag gataagaaga gcacttgtga tctggatgca tgggggtgtt 540
 cttatttta 548

<210> 13232

<211> 560

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-099-Q1-K7-H1

<400> 13232

gtctctctcg agtgatcccc ctgtagtccc cggccccgtc tttccgccgc ctcttgcaac 60
cgcttcacgt gcccttcgca ggtccccctt cggaccccaa atggagccga agaagtcctc 120
cgcccagcgc cagccccacg ccatggagcc caacaagtcc tctctatgcg gcgccaccgg 180
tcctgccgcc accgccgaag ccgagtcccc gttgtgcagc ttgttctacc cgccggcgcc 240
gaccgcggca aatgggaaag attcggactt gtacagcatt ctttaciaag ggcagagcgg 300
gagcgcacaa gctggcgta cagatggtaa accgcaatgg gtccttctt ccagaagtcg 360
tgccgcgaat gcaaaggatg gtaaaccatt accgccttat gattcagttg atacgtcgtg 420
ttttggatcg tctgtggatt atgggtggcg agattatttc tacggcagct ctacaccca 480
gaaagtgaca gaatcctnca ctgactacaa agggaacaag aaagatccag ccgcagattc 540
tcatggcgac tgggtggcaag 560

<210> 13233
<211> 349
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-099-Q1-K7-H12
<400> 13233

ctctggatgat nggnnnaaca agatggagtt tacctgtgaa acaaacaatt ggggtgttgg 60
gcttccacca agagaaaaga acgaaggag ctggcctttg atgaagccaa gattggagaa 120
cccgtcgttc aaacctgcaa aacatgacat tattgctgcc ttagacaaat ttattgaggg 180
gggggagatc agatactcat tacctgtgtt tagactaact acagcaagtg atattgtgca 240
aagggtttac ttttacaaca cagggccctn cttggttcca ggagttattg tnatgagcat 300
tgaagatgca cgaaatgata ggcattgat gggcccnata gatgaaaca 349

<210> 13234
<211> 668
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-099-Q1-K7-H2
<400> 13234

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 gcaccaaadc aaatctgcaa catcaattat ctaactccaa aaaccatgaa gctgggtgctt 120
 gtgggttcttg ctttcattgc tttagtagtca agtggtttctt gtacacagac aggcgggtgc 180
 ggggtgtgggc aacaacaaag ccatgagcag caacatcatc cacaacaaca tcatccacaa 240
 aaacaacaac atcaaccacc accacaacat caccagcagc agcaaacacca acaacaacaa 300
 gttcacatgc aaccacaaaa acatcagcaa caacaagaag ttcatgttca acaacaacaa 360
 caaçaaccgc agcaccacca ccaacaacaa caacaacagc accaacaaca acatcaatgt 420
 gaaggccaac aacaacatca ccaacaatca caaggccatg tgcaacaaca cgaacagagc 480
 catgagcaac accaaggaca gagccatgag caacaacatc aacaacaatt ccagggtcat 540
 gacaagcagc aacaccacaa cagcctcagc catatcagca gggccaggaa aaatcacaa 600
 agcaacaatg tcattggcag gagcagcaac agactacaag gtgcagctat tactactata 660
 gcagtagc 668

<210> 13235

<211> 577

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-099-Q1-K7-H6

<400> 13235

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 ttacaacagt tacctttggt gcatttattg gcacaaaaca tcagggcaca acaactacaa 120
 caacttgtgc tagcaaacct tgctgcctac tctcagcaac agcagtttct tccattcaac 180
 cgactagggt cattgaactc tgcttcttat ttgcaacaac aacaactacc attcagccag 240
 ctacctgctg cctaccccca gcaatttctt ccattcaacc aactagcagc attgaactct 300
 cctgcttatt tacagcagca acaactacta ccattcagcc agctagctgg tgtgagccct 360
 gctaccttct tgacacaacc acagttgttg ccgttctacc agcacgttgc gcctaacgct 420
 ggcacctctt tacaactgca acaattgctg ccattcaacc aacttgcttt gacaaaccca 480
 gcagtgttct accaacaacc catcattggt ggtgccctct tttagatttc ttatgagtta 540
 tagttcaata ataaagtttt ttgtctgatg tttaaaa 577

<210> 13236
 <211> 653
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-099-Q1-K7-H7

<400> 13236

attgagacca actagcaaca tagaaagcac aatagtgtac caacaatggc agccaaaata 60
 ttttgccctcc ttatgctcct tgggtctttct gcaagtgtctg ctacggcgac cattttccca 120
 caatgctcac aagctcctat agcttccttt cttccccctg acctctcacc agcgggtgtct 180
 tgggtatgtg aaaaccaat tcttcaacct tataggatcc aacaggcaat cgcagctggc 240
 atcttacctt tatcaccctt gtctctccaa caatcatcag ccctattaca gcagttacct 300
 ttggtgcatt tattggcaca aaacatcagg gcacaacaac tacaacaact tgtgctagca 360
 aaccttgctg cctactctca gcaacaacag tttcttccat tcaaccaact agctgcattg 420
 aactctgctt cttatttgca acaacaacaa ctaccattca gccagctatc tgetgcctac 480
 cccagcaat ttcttccatt caaccaactg acagctttga actctcctgc ttatttacag 540
 cagcaacaac tactaccatt cagccagcta gctgggtgtga gccctgctac cttcttgca 600
 aaccacaatt gttgcogttc taccagcacg ctgcgcctaa cgctggcacc etc 653

<210> 13237
 <211> 550
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-099-Q1-K7-H8

<400> 13237

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 ccttatgctc cttgggtctt ctgcaagtgc tgctacggcg accattttcc cgcaatgctc 120
 gcaagctcct atagcttccc ttcttcccc gtacctctca ccagcgggtg cttcggtatg 180
 tggaaacca attcttcaac cctacaggat ccaacaggca atcacagctg gcatcttacc 240
 tttatcacc ttgttctcc aacaatcctc agccctatta catcagttac ctttggtgca 300
 tttattggca caaacatca gggcacaaca actacaacaa cttgtgctag caaaccttgc 360

tgcctactct cagcaacagc agtttctttc attcaaccaa ctagctgcat tgaactctgc 420
 ttcttatttg caacaacaac aactaccatt cagccagcta cctgctgcct acccccagca 480
 atttcttcca ttcaaccaac tggcagcatt gaactctcct gcttatttac agcaggaaca 540
 actactacca 550

<210> 13238
 <211> 624
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-099-Q1-K7-H9
 <400> 13238

caacaagcaa catagaaagt ggaatccagt agcaacaata gagcaacaat ggcgaccaag 60
 atattttccc tccttatgct ccttgctctt tctacatgtg ttgctaacgc gacaattttc 120
 cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaattatg 180
 ggttcaatat gtgaaaaccc agctcttcaa ccatataggc ttcaacaagc aatcgagca 240
 agcaacatac ctttatcgcc cttgttggtt caacaatcgc cagccctatc tttggtgcag 300
 tcattggtac aaaccatcag ggcacaacag ctgcagcaac tcgtgctacc tctgatcaac 360
 caagtagctc tggcaaacct ttctccctac tctcagcaac aacaatttct tccattcaac 420
 caactgtcta cactgaaccc tgctgcttat ttgcagcaac aactattacc atttagccag 480
 ctagctactg cctactctca gcaacaacaa cttcttccat ttaaccaatt ggccgcactg 540
 aaccccgctg cttatttgca gcagcaaata ctactaccat ttagccagct agctgcagca 600
 aacccggctt gcttcttgac acag 624

<210> 13239
 <211> 668
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-100-Q1-K7-B1
 <400> 13239

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 gctatcagat tctgcagag tacaaaattc acaatgctga ggtgttattc cgtgaagatg 120

ctactgtgga tgatctcatt gacgttatcg aagggaaccg gaagtacata aagtgcgtgt 180
gcgtatataa caagatcgat gttgttgga tcgatgacgt tgataatctt gctcggcaac 240
caaattcact agtgatcagc tgcaatttga agctgaactt ggacagacta cttgcgagaa 300
tgtgggagga gatggggccta gtgaggggtgt atacaaagcc acagggccag cagcctgatt 360
tcacagacc agttgttctt tccaccgaca gaggtggctg cacggtggag gacttctgca 420
atcatatcca tagaagtttg ctcaaggacg tgaagtatgt gctcgtatgg ggaaccagcg 480
caaggcacta tccacagcat tgcggcctcg gccatggcct taacgacgag gatgtcgtcc 540
agatagtaaa gaagaaagaa aaggaggagg gtgggagagg cccgttcaag tcgcacacga 600
acgcacctga cccgatatct gataggggtga agaaagccca ctggagacat aatataactg 660
ggtccttg 668

<210> 13240

<211> 644

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-K7-B10

<400> 13240

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tcggctgaat tgggccagtg ctggtgaaaa ggcgatgat actcctgaat atactatctt 120
tgttggggat ttggctgcag atgttacaga ttacttggtta caagagacat tcagggttga 180
gtatccctct gtcaagggtg caaaagtgtg gactgataaa ttgacaatgc gcacaaaggg 240
ttatggattt gtgaaatttg gtgatcctac agagcaagct cgtgcaatga ctgaaatgaa 300
tggaatgcct tgttcttcca ggcctatgag tattgggtcct gcagcaagta ggaaaaatac 360
aggaggtggt gttcaagaga gactacaaa ttctcaagga gtcagtctg agaatgatcc 420
taacaatacc actatatttg ttggtgggct tgacccaat gtcactgaag ataccctaaa 480
acaagttttt tctccttacg gtgaagtcgt ccatgttaag atccctgttg ggaagagatg 540
tggttttggt cagttcgtta ccagaccttc tgctgaacaa ggcgtgctaa tgctgcaagg 600
ggccttgatt ggtgcacaga atgttcgact ttcattgggt agaa 644

<210> 13241

<211> 332
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-100-Q1-K7-B11

<400> 13241

cnccatgccc cnacgcngcn caaccgcgcc gggcgcagcc ncanccccag ccacacccan 60
 gcccngcca acagccgcan ccaagcccgn gccagcngca gggaaccngc ggcgninggca 120
 gcaccccgan cccggggccag ngcgcncgag ggcnagaggca ncagngcagc ccgacggcaa 180
 cgccggacng cncgcncag ngccagncgn ngcggcagca gngnngccag cagcncaggc 240
 agggggagcc gcagcaccgg gaccaggcga ncnncggcnn ggncccccag nccanccccg 300
 agcagcagcc gcaaagcggc caggncgcgg gg 332

<210> 13242
 <211> 456
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-100-Q1-K7-B2

<400> 13242

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 ccggaggcgc cnggggcnnn cngcaagngc ngcnacggcg accannnncc cgcaaggcnc 120
 gcaagcncn atagcnnccc nncnncccc gnacccnca ccagcggngn cnnccgggggt 180
 ggagacccaa nncnncaacc cnacagganc caacaggcaa ncacagcngg cancnaaccn 240
 nnancaccn nggncncnca acaancanca gccnannac aacagnnacc nnnngngcan 300
 nnannggcac aaaacancag ggcacaacaa cnacaacaac nngngcnagc aaaccnngcn 360
 gccnacncnc agcaacagca gnnncnncca nncaaccaac nagcngcann gaaccncngn 420
 ncnaaaangc aacaacaaca acnaccannc agccag 456

<210> 13243
 <211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-100-Q1-K7-B3

<400> 13243

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ccctctgct tatttccagg ggcaaatact actaccattt ggccagctag ctacaacaag 120
ccccgcttcc ttcttgacac aacaacaagt gcttccgttc taccagcagt ttgtggctaa 180
ccccgcaacc cggtttggtg gcaacagttg ctgccctttg tccaacttgc tttgacaaac 240
ccagcagcct tctaccaaca acacatcatt ggcggtgccc tcttttagat tgcttattag 300
ttgtaattca ataataagt tttttggctg atgtatgtgg cctcctagaa ataagaagt 360
atatttccc 369

<210> 13244

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-K7-B4

<400> 13244

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tctgcggaag gcgttttggc tgttcgggtc ccttttccta gggaggtctc cgacgagaag 120
ggggtgaaat cgtcgttcaa catgatgtct catcatgcgt gggaggtgga gaagagctgt 180
gtggcccaga gtttgagaag gtgcagttct tgaagaaggt cagatagcat tgccaattct 240
gtttccgtgg tggacgatct ttcgttattg agaggagtga tagtttgaag ttttgtttcc 300
tttatcatga actgtttgtc ttgtatattg gtcataattt tttgtgccta atacattgga 360
tgcaattggc atcttgaatt 380

<210> 13245

<211> 505

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-100-Q1-K7-B5

<400> 13245

cggcgaccan nnnccacaa ggcncacaag cncnancg nccccnnnn cccccgnacc 60

nncaccaac ggggggaaga aggggngaaa acccaanncn ncaacccaac agganccaac 120
 aggcaancgc agcnggcanc naaccnnnnn caccnngnn cncacaaca ncancagccc 180
 nannacagca gnnaccngng gngcannnn nggcacaaaa cancagggca caacaacnac 240
 aacaacnngn gcnagcaaac cngcngccn acncncagca acagcagnnn cnnccannca 300
 accaachnagc ngcanngaac ccngcnncna aaangcaaca acaacaacna ccanncagcc 360
 agcnancngc ngcccacccc cagcaannnc nccanncaa ccaaccgaca gcanngaacn 420
 cncggcenna nnnacagcag caacaaccac caccanncag ccagccagcc ggggggagcc 480
 cngccaccnn cngacacaa ccaca 505

<210> 13246
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-100-Q1-K7-B6

 <400> 13246

accaccagtg gggacaagga naacaacang gnnaccaca gggggaanga gaagaacaan 60
 gccannngcn gcaacaaagg ccacnnngac aangaaanng anangcncgg ccccgagacc 120
 caccnngcg ncaagcgcan caccancaa ccccgagca agcngggggn gnnccccgag 180
 accaachnag gcaacaaagn ccngcngag gggcgcnnga ngaaccnngg gggngcnach 240
 ggccanccca gcnngnncn gncngcnca aacacnaacc agggcanngc ccaacnnga 300
 ccnggaagg agaagagcnc nggcaagnnn gagaagaagg ggnngngcn cccaagcac 360
 ccngangaga aaggggcn nnnncacnng ggcaagcngg gngccaagcn gaccaagcna 420
 accaa 425

<210> 13247
 <211> 70
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-100-Q1-K7-B9

 <400> 13247

cagcgaggan gacanccaca agagcgnaaa gnacaagggg ngggcaagca caaccaacgg 60
aaacaagaag 70

<210> 13248

<211> 663

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-K7-C1

<400> 13248

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tggcagcgga aagatttttg ctggcttatg ctcttgggc tttgtgagag tgctgctacg 120
gogaccattt tcccgcaatg gtcgcaagct cctatagggt cccttcttgc ccgtacctc 180
tgaggggggg gtcttcggta tgtgaaaacc caattcttca accctacagg gtccaacagg 240
caatcgagc tggcatctta cctttatcac ccttggttct ccaacaatca tcagccctat 300
tacaacagtt acctttgggt catttattgg gacgcaacat cagggcacga caactacgac 360
aagttgtgct agcaaaccct gctgcctact ctgagcagca gcagtttctt ccattcaacc 420
aactagggtt attgaactct gcttcttatt tgcaacaaca acaactacca ttcagccagc 480
tacctgctgc ctacccccag caatttcttc cattcaacca actagcagca ttgaactctc 540
ctgcttattt acagcagcaa caactactac cattcagcca gctagctggg gtgagccctg 600
ctaccttctt gacacaacca cagttgttgc cgttctacca gcacgttgcg cctacgctgg 660
cac 663

<210> 13249

<211> 537

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-100-Q1-K7-C10

<400> 13249

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gctagcaaac cttgctgcct actctcagca acagcagttt cttccattca accaactagg 120

ttcattgaac tctgcttctt atttgcaaca acaacaacta ccattcagcc agctaccttc 180
gacgtacccc cagcaatttc ttccattcaa ccaactagca gcattgaact ctctgctta 240
tttacagcag caacaactac taccattcag ccagctagct ggtgtgagcc ctgctacctt 300
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ctaccaacaa cccatcattg gtggtgccct cttttagatt tcttatgagt tatagttcaa 480
taataaagtt ttttatctga tgtttgtggc ttcccagaaa taagaaagta catttct 537

<210> 13250

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-K7-C11

<400> 13250

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agcagcttga ggacggggcg acgcttgccg actacaacat ccagaaggag agcacctctc 120
acttggtgct ggcctcagg ggaggcatgc agatcttctg gaagacctg accggcaaga 180
ggtcaccctt gaggtggagt cttcagacac catcgacaac gtcaaggcca agatccagga 240
caaggagggc atcccacccg accagcagcg tttgatcttc gctggcaagc agcttgagga 300
tgggcccacc cttgctggatt acaacattca gaaggagagc accc 344

<210> 13251

<211> 349

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-100-Q1-K7-C12

<400> 13251

aaaaaaaaa aaaaacaccc ttcccatcng ggggagaaaa aatattttgg gaagaaaaaa 60
acaaacaaat ccccccccaa caaaaaaaaa aaaaaaaaaa aattttctac ccccccccc 120
ccccccacaa aaaaaaaaca cccccgggg gggggaaacc cccccccca ccaaaaaaaaa 180
aaaaaaggtt tttttgcccc ccccccccc ccaaaaaaaaa aaataatttt ttaaaaaaaaa 240

aaaaaaagag ttatgttttg aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaacgggggg 300

ggcgcgcccc cccccacaa aaaaaaaaaa aaaaaaacg ggccccac 349

<210> 13252

<211> 675

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-100-Q1-K7-C2

<400> 13252

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cgcaagctcc tatagcttcc cttcttcccc cgtacctctc accagcgggtg tcttcgggtat 180

gtgaaaaccc aattcttcaa ccggacagga tccaacaggc aatcgagct ggcattctac 240

ctttatcacc cttgttctc caacaatcat cagccctatt acaacagtta cttttggtgc 300

atttattggc aaaaaacatc agggcacaac aactacaaca acttggtgcta gcaaacttg 360

ctgcctactc tcagcaacag cagtttcttc cattcaacca actaggttca ttgaactctg 420

cttcttattt gcaacaacaa caactaccat tcagccagct acctgctgcc taccaccagc 480

aattttctcc attcaaccaa ctagcagcat tgaactctcc tgcttattta cagcagcaac 540

aactactacc attcaaccag ctagctggtg tgagccctgc taccttcttg acacaaccac 600

agntgttgcc gttctaccag cacgttgcc ctaacgctgg caccctctta caactgcaac 660

aattgctgcc attca 675

<210> 13253

<211> 604

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-K7-C4

<400> 13253

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cggggtccgc gcccgtctg ccgccgtggc cgaacaggag aagtaccttg ccgaactgct 120

cgcgagagagg cagaagcttg gcccgttcgt cccagtgatc ccgcatagtg tacgctgggg 180
 tgaggaagaa attttacgtg tttccacact attggagaac gcatcccttt taaatcaaag 240
 tggccttgaa catggtagtc cactaacaac aggaggatta tattcaaag gagcagctac 300
 tgacatgaat gtgtggacat cagcatttca accagaaagt tcaccagctt atagctggct 360
 tggaggatcc cagggcagct cctctggact tattgtcaag aaaacaatga aggtcgatat 420
 cccagtagac aaatatccaa cattcaattt cgttggccgc atccttgggc caagaggaaa 480
 ttccttgaag cgggtggagg caaatacga ctgccgtgtg ctaataagag gtcgtggcag 540
 catcaaagat ccagcacggg aggaaatgat gcgagggaag ccaggatatg aacacctgaa 600
 tgaa 604

<210> 13254
 <211> 623
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-100-Q1-K7-C6
 <400> 13254

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 gaagatgggc atcgttctcg tcgtgtgcct ggctctgtca gctgccagcg cctctgcaat 120
 gcagatgcc tgcccctgcg cggggctgca gggctgtac ggcgctggcg cgggctgac 180
 gactatgatg ggcggcagct ggctgtacc ctacgcggag tacctgagge agccgcagtg 240
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 gccgctccgg caacagtgt gccagcagca gatgaggatg atggacgtgc agtccgtcgc 360
 gcagcagctg cagatgatga tgcagcttga gcgtgccgt gccgccagca gcagcctgta 420
 cgagccagct ctgatgcagc agcagcagca gctgctggca gccagggtc tcaaccccat 480
 ggccatgatg atggcgcaga acatgccggc catgggggga ctctaccagt accagctgtc 540
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 gatattgggg aaatctctc tat 623

<210> 13255
 <211> 621
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-K7-C7

<400> 13255

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ctcacaagct cctatagctt cccttcttcc cccatacctc tcaccagcgg tgtcttcaat 180

gtgtgaaacc ccaattgttc aaccctacag gatccaacag gcaatcgcaa caggcatctt 240

accattatca cccttggttc tccaacaacc gtcagcccta ttacagcagt tacctttggt 300

ccatttggtg gcacaaaaca tcagggcaca acaactacaa caacttgtgc tagcaaacct 360

tgctgcatac tctcagcaac atcagtttct tccattcaac caactggctg cattgaactc 420

tgctgcttat ttgcaacaac aattaccatt cagccagcta gttgctgcct acccccagca 480

atttcttcca ttcaaccaac tagcagcatt gaactctgct gcttatttac agcagcaaca 540

actactacca ttcagccagc tagctgatgt gagccctgct gccttcttga cacaacaaca 600

gttggttgccg ttctacctgc a 621

<210> 13256

<211> 552

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-100-Q1-K7-C8

<400> 13256

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gggaggggga ccagcngnaa ngggnatngg ncctgccgtt gcaatccctg cagcagtga 120

agctgctggc cttcagatgg atgatatcga tcttttcgaa atcaacgagg cttttgcac 180

ggatatgtct actgctgcaa gaagttggaa cttgatcctg ctaaagtcaa tgttaatggc 240

ggtgcaatgg ctcttgga ca tctttgggt gctacaggtg cacgggtgcgt cagtactctt 300

ctcaatgaga tgaagcgccg cggcaaggat tgccggttcg gagggtttta tgagctcacc 360

ggttctggga tgggtgctgc tgctgtgttc gagcggggag acggcgttta tgagctcacc 420

aatgctcggg gaatctcgac ccacaactgg ctttccaagg acgccctgta aagctacacc 480

caccaaaaatt tgccggaact ggtagcattg gtttcagatc gctgtgggga gcgaattggg 540
gaataaaatg at 552

<210> 13257

<211> 586

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-100-Q1-K7-D1

<400> 13257

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tcgctgact cgatgcacaa gcgccgagcc accggtggaa agcagaaggc ctggaggaag 120
aagcgaaagt atgagcttgg tcgccagcca gccaaacacca agttgtcaag caataagaca 180
ttgatgaggg tccgtgttcg tggaggtaat gtgaaatgga gggctcttcg ccttgatact 240
ggtaactact catggggaag tgaagctgtt acccgcaaga cccgtatcct cgacgtggtc 300
tacaatgcat caaacaatga gcttgtgagg acacaaaccc ttgtgaagag tgccattgtg 360
caagttgatg ctgccccatt caagcagtgg tacctcactc actatggagt tgacattggg 420
tggaagaaga aaaccctgc tgcaaagaag gataatgctg agggacaaga gggtgaggca 480
gcagctgagg aaacgaaaaa gagcaaccat gttacgagga agcttgagaa gcgcaaggag 540
ggacgtaccc ttgaccaca cattgaggag caatttggca gtggac 586

<210> 13258

<211> 609

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-100-Q1-K7-D11

<400> 13258

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gcagatgcc tattggttca ggatgagtct accaggagcc agcaagaggg tcaacagaat 120
ggaatttctg agccagctgc caacaatgct ctccagtatc aagagcaaaa ccctcagcga 180
ggtggaagta ccctgcagg ctccaggtcc ctcaacccat ttgggtccct ttgctgtgg 240

ttgctgggag gcggtgcttc tgatggcata gnttctttct tctctatgtt cagagatgtt 300
 cgtgatcatg gtcaagatta caccgatcca cctcgaaatg gaaatgatca ggtgacatag 360
 aatcatgggg atgaaagtgg gccaatgact gaactcgagt gcttgggcgg cagcagnctc 420
 tttctaatat gatataatgc cagcacctcc cttcaaaagg ataatgacga atattggtgg 480
 caactataca gactggtgtc gctggagatg ccatgttagt attatctgtt tctcactttt 540
 ttagttagta ggtaagggtg aagggtgtat ctatattcat tacatgtgca cattccctac 600
 cgtctgaat 609

<210> 13259
 <211> 669
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-100-Q1-K7-D3
 <400> 13259

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 gctccttat gctccttggc ctttctgcaa gtgctgttac ggcgaccatt ttcccgcaat 120
 gctcgcaagc tcctatagct tcccttcttc ccccgtaact ctcaccagcg gtgtcttcgg 180
 tatgtgaaaa cccaatgctg cgaccctaca ggatccaaca ggcaatcaca gctggcatct 240
 tacctttatc acccttgttc ctccaacaat catcagccct attacatcag ttacctttgg 300
 tgcatttatt ggcacaaaac atcagggcac aacaactaca acaacttgtg ctagcaaacc 360
 ttgctgccta ctctcagcaa cagcagtttc ttccattcaa ccaactagct gcattgaact 420
 ctgcttctta tttgcaacaa caacaactac cattcagcca gctacctgtt gctaccccc 480
 agcaatttct tcatttcaac caactggcag cattgaactc tcttgcttat ttacagcagc 540
 aacaactact accattcagc cagctagctg gtgtgagccc tgetaccttc ttgatacaac 600
 cacagttggt gccgttctac agcacgtgct gcctaacgct ggcaccctct tacaactgca 660
 acaattgct 669

<210> 13260
 <211> 664
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-100-Q1-K7-D4

<400> 13260

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cacctgatga gcaggcttta gtaattgcag dgtctgctta tgggtatacc cttgttgaaa 120
gaacaactgg acacattgtt atagatgttc taggcgagag gttaaggttg gatgttcttg 180
gtgtccatga attcgatagt gtgagaaaaa gaatgtctgt tattgtaagg tttccggaca 240
acaatgtgaa ggttcttgtg aaagggtgctg acacatcaat gttaaacatt ttgaaagtag 300
aaattgatga tgaactttat gattcgttgc atgttaaaat tagagaagct acagaaaatc 360
atttgtcagc ctattcatca gagggtttac ggaccttagt cattggttca aaaaatctga 420
cagatgcaga atttagtgaa tggcaggaaa tgtacgaaga agctagtacc tccatgcatg 480
agagatcagc aaagctccgt caagcagcag gtctggtaga atgcaatcta acccttcttg 540
gtgcaactgg aattgaagat aaattgcagg atgggtgttcc tgaggccatt gactctctga 600
gacaggctgg aatcaagggtg tgggttctca caggagataa gcaagaaact gctatatcta 660
ttgg 664

<210> 13261

<211> 177

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-K7-D5

<400> 13261

tagcaacata gaaagcacia tatttgtacc aataatggca gccaaaatat tttgccttaa 60
tatgcttctt ggtctttctg caagtgcctc ttcggggagc atttttccgc aatgcttaca 120
agcttctatt actttccttt tttcccata ccttttaaca acgatgtctt caatatg 177

<210> 13262

<211> 278

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-K7-D6

<400> 13262

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taccattcta cccacaggat gtggcaaaca atgtcgcctt cttacaacaa caacaattgc 120
tgccatttaa ccaacttgct ttgacgaatc ctaccacctt attgcagcag cccaccattg 180
gttttgccat cttctagatt tttttatgct ttatactgta ataataaagt tctcatactg 240
atatgtgcaa cttctcagta ataaaagatt agagatct 278

<210> 13263
<211> 111
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-100-Q1-K7-D7

<400> 13263
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actgctggcta ctccagcgca cacgcagatc agcgtcgaaa accgtcgcat c 111

<210> 13264
<211> 98
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-100-Q1-K7-D8
<400> 13264

gagacacaag ccaggcagcn nnccgcanan gggcngacca caggaaaggc aaannnggan 60
ggngggcgcc ggagagaccn ncaacangaa caagcggg 98

<210> 13265
<211> 418
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-100-Q1-K7-E10
<400> 13265

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ccctcagcct ccgcgcctcc agtccacagc ggagcgggtg gtgtcgtctg aagcggcgcg 120

atcaaggagt cttcggggcgc tccggacgta acgtgctggc gggtgcttat ctccggatgg 180
 ggtgtaagcg gaaatgttct ccttggttcta tggcctgtgg aagtatgtgt tcgccaagga 240
 cgagttccgt gttctgattc ttgggtgtga cagagctggc aagacgactt tgctggagaa 300
 gttgaaatcg atatatctca agggggaagg acttccgcct gaccgtgtcg ttccaacagt 360
 tgggctcaac attggccgca tcgaagacgc aaaggcaaaa cttgggttct gggatcta 418

<210> 13266

<211> 98

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-K7-E11

<400> 13266

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tttttttttt tttttttttt tttttttttt tttttttt 98

<210> 13267

<211> 75

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-K7-E12

<400> 13267

gcgaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaag gggcgggcgc 60

gctctgagag gatcc 75

<210> 13268

<211> 466

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-100-Q1-K7-E2

<400> 13268

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atccagcaag caccgcctcc ctgctagtac aagggtgata tgtttttata tgtgtgatgt 120

tctcctgtgt tctatctttt ttgtaggcc gtcagctatc tgttatggta atcctatntg 180

tcttcgcgacc ttgtaattgt gtagtctgtt gttttccttc aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
 aaaaaaaaaa ggaaaaaaaa ataaaaaaaa aaaaaaaaaa aaaaaaaaaa gggggggccc 360
 ttttaagggg tcaaaagtta aaccocggggg attggaaagg aaaaattttt tttatggggc 420
 ccccaaaaaa aaaaaagggg gccgggttta aaaaagtgtg gagggg 466

<210> 13269

<211> 457

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-100-Q1-K7-E3

<400> 13269

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 tgctgatcat tgtcgaatgt cgagacacac agctgcatgt cgcacgttca cttcatatga 180
 tgttggggccn tanggagtaa agcatccttn atcactgtna caattccacc tttnatnaan 240
 taccntctn tcttccttgc agcttcttga acattgtcag cattgagtat cttacattg 300
 tnttcaattc gacaatgatc agcacctggt tacatgcgtg atctgcggat cagtctgttg 360
 gnggtcttcg gagccttaaa agtgcctcc agggcatttt ttctttcttt ttgctctttt 420
 ctacccttcc ctttgggggg ctccggacgc gtgggtc 457

<210> 13270

<211> 586

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-100-Q1-K7-E4

<400> 13270

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 cggtttgccg accaggttcc accgttccag agtagccaag cgaatcccgt gtctggttcg 120
 cgcgatggcg gaggagcagt ccaaccccca gcaccagcaa gcggaggaga gggaggttgt 180

ggtggagcag cagcagccga ggagggcccc gaagctgagg tacctggact tcgtccaggt 240
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 cggcccgcctc cgccccagcg ttgacgccgt cgagtctgcc gtcaagggcg tcgttagccc 360
 cgtctacgac cgcttcggcg gcctgccgct cgacgtcctc gccttcgtcg accgcaaggt 420
 ggacgacacg gtgcacgagg tggacaagca cctcccgggc gcgctgaagg cggcgctcggc 480
 gcatgtctac gcggtggttc ggggcgtgcc ggaggtggcg cgcgagctgg cggccgaggc 540
 gcanccggtcg ggcgtgaggg gcgccaccgc tgcggcgctc gcgatg 586

<210> 13271

<211> 619

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-K7-E5

<400> 13271

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 cctgcttgcg cttcttgcg ctttttgcgag cgcaacaaat gcgtccatta ttccacaatg 120
 ctcaattgct cctagttcca ttattccaca gtctctccca ccagttactt caatggcggt 180
 gtagcaccca gctgtgcaag cctataggct acaacaagcg attgcggcga gcgtcttaca 240
 acaaccaatt gcccaattgc aacaacaatc cttggcacat ctaacaatac aaaccatcgc 300
 aacgcaacag caacaacagt tcctaccagc actgagccac ctagccatgg tgaaccctgt 360
 cgcctacttg caacagcagc tgcttgcatc caaccactt gctctagcaa acgtagttagc 420
 aaaccagcaa caacaacaac tgcaacagtt tctgccagcg cttagtcaac tagccatggg 480
 gaaccctgcc gcctacctac aacagcaaca actgctttca tctagccgc tcgctgtggc 540
 caatgcacct acatacctgc aacaagaatt gttgcaacag attgtaccag ctctaactca 600
 gctagctgtg gcaaaccct 619

<210> 13272

<211> 637

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-K7-E7

<400> 13272

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tttgctactg caagtgtcca agtctgcgac gacgtccgag atgtcgacgg tgagccgtgc 120
atcccttgac cagaagcttg cctcgcgcaa gcgctgctcc cgaggtacga ggaacagcgg 180
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ccagggcacc ggacgcccc acccggttt cttcaggcca tgatgagatc agatatatat 600
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<210> 13273

<211> 643

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-100-Q1-K7-E8

<400> 13273

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agcgcaccac caaaccccca gcagcggcg tagggttcgc gcctcggcg gtcggcaccg 120
tcacctgcgg cgatggcggg gcaggagcgt aggacaatcg atctggagga gggatgggct 180
gtcgtgcana agggcatcac caagctgaag aacatcctcg agggcaagcc cgagccgcag 240
ttcagttccg aggactacat gatgctctac acgacgatat acaacatgtg cacgcagaag 300
ccgccgcagg actactcaca gcagctctac gacaagtatc gggagtcgtt cgaggagtac 360
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ctagtgcaa ggtggtcaaa ccataaagtc atggttcgct ggctgtcacg cttcttttat 480
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acttgcttcc gagagttgat ctatcaagag attaaaggac aaggtaagat gcagtgatag 600
ctctgattga ccaagacgtg aggggtgaaca gattgaccgg gct 643

<210> 13274
<211> 387
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-100-Q1-K7-E9

<400> 13274

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accnacgnac cnacaacaac agnngcngca acaaaaagna ccagcncnga cncagggggc 180
gagggcaaac ccngcngccn acnnacaaca gaagcnncca aacaaccaac nggcngngnc 240
aaacncngcn gcgnaccnac aacagcgaca acagnnacc aancanngg cagnggcnaa 300
cccaaaggnc gcnaccnnc ngcagcagca acaacaanng cnggcagaca accagnncnc 360
nnngangaac ccngccnngc agcaacc 387

<210> 13275
<211> 652
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-K7-F1

<400> 13275

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gaacatcatc cacaacaaca tcatccacaa aaacaacaac atcaaccacc accacaacat 240
caccagcagc agcaacacca acaacaacaa gttcacatgc aaccacaaaa acatcagcaa 300
caacaagaag ttcattgttca acaacaacaa caacaaccgc agcaccacca ccaacaacaa 360
caacaacagc accaacaaca acatcaatgt gaaggccaac aacaacatca ccaacaatca 420
caaggccatg tgcaacaaca cgaacagagc catgagcaac accaaggaca gagccatgag 480

caacaacatc aacaacaatt ccagggtcat gacaagcagc aacaaccaca acagcctcag 540
 caatatcagc agggccagga aaaatcaca cagcaacaat gtcattgccg ggagcagcaa 600
 cagactacaa ggtgcagcta taactactat agcagtagct caaatctaaa aa 652

<210> 13276

<211> 663

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-K7-F11

<400> 13276

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 atccctcttt gcgcttcttg ccctttttgt gagcgcaaca aatgcgttca ttattccaca 120
 atgctcactt gctcctagtg ccattattcc acagttcctc cctccagtta cttcaatggg 180
 cttcgaacac ccaggtgtgc aagcctacag gctacaacaa gcgcttgagg cgagcgtctt 240
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 tgtgcgctac ttgcaacagc agttgcttgc atccaacca cttgctctgg caaacatagt 420
 tgcataccaa caacaacaac aattgcaaca gtttctacca gcgctcagtc aactagccat 480
 ggtgaaccct gccgcctacc tacaacagca acaactgatt tcacttagcc ctctcgctgt 540
 ggttaatgca cctacatacc tgcaacaaca gttgctgcaa cagattgtac cagctctgac 600
 tcagctagct gtggcaaacc ctgctgccta cttgcaacag ctgcttccat tcaccaactg 660
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<210> 13277

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-K7-F12

<400> 13277

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attgcttttag aatcaagtgg ttcttgtaca cagacaggcg ggctgcaggt gtggtcaaca 180
 acaaagggcg tgaggcagaa acatcatcca caacaacatc attccccaaa accacaacat 240
 caaccccccc caccacatga ccaggggtga gggcaccaac cacaacaggt gttcatggca 300
 tccccaaaac atgaggcaca aca 323

<210> 13278

<211> 570

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-K7-F2

<400> 13278

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 gacaccaccg tttcatctac cgcctccgtt ctatatgccg cctccgttct atctggcccg 180
 cagcagcagc cgcagccatg gcaatacccc actcaaccac cgcagctaag cccgtgccag 240
 cagttcggat cctgcggcgt cggcagcgctc ggcagcccgt tcctgggcca gtgcgtcgag 300
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 ctgcagcagc agtgctgcca ccagatcagg caggtggagc cgctgcaccg gtaccaggcg 420
 acatacgggtg tggtcctgca gtccttcctg cagcagcagc cgcagggcga gctcgcgggc 480
 ctgatggcgg cccaggtagc gcagcagctg acggcgatgt gggggctgca gctgcagcag 540
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<210> 13279

<211> 616

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-K7-F3

<400> 13279

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 tccacaatgc tcaattgctc ctagttccat tattccacag ttctctccac cagttactgc 180

agtagccttc gaacacccag ctgtgcaagc ctataggcta caacaagcga ttgcggcgag 240
 cgtcttataa caaccaattg cccaattgca acaacaatcc ttggcacatc taacaatata 300
 aaccatcgca acgcaacagc aacaacagtt cctaccagca ctgagccacc tagccatggt 360
 gaaccctgtc gcctacttgc aacagcagct gtttgcattc aaccacttg ctctagcaaa 420
 cgtagttaga aaccagcaac aacaacaact gcaacagttt ctgccagcgc ttagtcaact 480
 agccatgggtg aaccctgccg cctacctaca acagcaacaa ctgctttcat ctagcccgt 540
 cgctgtggcc aatgcaccta catacctgca acaagaattg ttgcaacaga ttgtaccagc 600
 tctaactcag ctagct 616

<210> 13280
 <211> 537
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-100-Q1-K7-F4

 <400> 13280

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 tcaaccaact agctgcattg aactctgctt cttatttgca acaacaacaa ctaccattgg 180
 cgatctacct gttgcctacc cccaacaatt tcttccattc aaccaactgg cagcattgaa 240
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 ccctgctacc ttcttgacac aaccacagtt gttgccgttc taccagcacg ctgcgcctaa 360
 cgctggcacc ctcttacaac tgcaacaatt gctgccattc aaccaacttg ctttgacaaa 420
 cctagcagtg ttctaccaac aacccatcat tgggtggtgcc ctctttttaga tttcttatga 480
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<210> 13281
 <211> 549
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-100-Q1-K7-F6

<400> 13281

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ctatagctgc ctttcttccc ccataccttc catcaatgac cgcttttagta tgtgaaagcc 180
gagcccttca accctacagg atccagcaag caatcgcaac aagcaactta cctttatcac 240
acctgttctt tcaacaatcg ccagccctat ctttggtgca gtcattggtg caaaccatca 300
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ctgctgctta tttgcagcaa caacaactac taccattcag ccagctagct actgcctact 480
ctcagcagca acaatttctt ccatttaacc aattgggcgc actgaacccc tctgcttatt 540
tccagcagc 549

<210> 13282

<211> 560

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-K7-F8

<400> 13282

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tcacctgtcc gcactgtcag cgggaggttc catcttcaaa cattgcattg cacagcgcg 180
gtgcgctcgg aaccttcaga agtgcgaaac ttgcggagat atggttgcca ggaagcttat 240
ggatgaacac tacgatgaaa accatgctcc gatgaattgc tcactttgca aacacacagt 300
agaacgcgag ctatgggata ttcatacagg catacaatgc ccacaaagga tgctcgcg 360
ccaatactgt cagtttgaac tgctgcagt tgatcttttt gaacatcagg atctgtgtgg 420
aaatcggaca gaatattgtc aaaggtgcag gaagtatatc agacttcgtg aattgattgg 480
acatgaactc cagttccata ccgatttgaa tgctgcatta gaacttttaa gtgacaggac 540
tcgagccgca gcagagcagc 560

<210> 13283

<211> 693
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-100-Q1-K7-G1

 <400> 13283

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acaagcggcg gctgtggctg ccagacacca ccgtttcatc taccgcctcc gttctatatg 180
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gagccgctgc accggtacca ggcgacatac ggtgtggtcc tgcagtcctt cctgcagcag 480
cagccgcagg gcgagctcgc ggcgctgatg gcggcccagg tagcgcagca gctgacggcg 540
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<210> 13284
 <211> 131
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-100-Q1-K7-G11

 <400> 13284

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ttttgtctga g 131
  
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<210> 13285
 <211> 626
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-100-Q1-K7-G2

<400> 13285

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cgcaagctcc tatagcttcc cttcttcccc cgtacctctc accagcggtg tcttcgggtgg 180
ggtgaaaccc aattcttcaa ccctacagga tccaacaggc aatcgcagct ggcattcttac 240
ctttatcacc cttgttctct caacaatcat cagccctatt acaacagtta cttttggtgc 300
atttattggc acaaaacatc agggcacaac aactacaaca acttgtgcta gcaaaccctg 360
ctgcctactc tcagcaacag cagtttcttc cattcaacca actaggttca ttgaactctg 420
cttcttattt gcaacaacaa caactaccat tcagccagct acctgctgcc tacccccagc 480
aatttcttcc attcaaccaa ctagcagcat tgaactctcc tgcttattta cagcagcaac 540
aactactacc attcagccag ctagctgggtg tgagccctgc taccttcttg acacaaccac 600
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<210> 13286

<211> 473

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-100-Q1-K7-G3

<400> 13286

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catgttttga cctnccnccg ccgggggaga gaaaaaaaaa acnnnccatg taccaccgac 180
ggntcatntg ccgncgccac catgccacta ccctactnaa ccggccgggg ctnagcctca 240
tgggnaggca caccatgcc cgtgccaaca gccgnatcca agcccggggc ggcggnaggg 300
aacctgnggg gttggcagca ccccgatcct gggccagtgc ggcgagtttt tggggcatta 360
gtgcaggccg acggggacgc cctattgctt gggttaagtgc cagtcggtgc gggagggggg 420
ttggcagcag tttaggggtg tggggngnga ggagcgggtc caggcgatct tgg 473

<210> 13287
 <211> 733
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-100-Q1-K7-G4

<400> 13287

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tcgggctatc anctcctctg ncgctgtcgc ccggccccgg cccgccgcgc ccagaactgc 180
ggctgcccag cccaaacgta tgctgctatc aagtgtggac atgctacggg cancgacccc 240
gacgagtacc tgcggcagac aagagtgcc cagtcggggc cegtgcgccg ctccgggccgn 300
ngcggcggnn cagcagtgnn gcggcggtgg gtgccgaacc gtgnngctta gcgtcgtcac 360
cccggctccc ttctttcaac cggcatttca agagcccagg tcccgggagc cgggttgccg 420
aggggccaag aaccttttac cccccggagc gtcgtttcct gagcgcccggt caagggcgta 480
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agatcaacaa ggagcaacgg cctactggga ccccgaccaa gagggcagtg ggccgtgccg 660
ccggggggggc agaaagtcct acgggcggcg ggcccgttg cagacttggt gggaactcca 720
cttcggggcc cgg 733

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<210> 13288
 <211> 601
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-100-Q1-K7-G6

<400> 13288

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tactgcacac attaagcttg tggatgagaa tcggtggtac aacttcgatg atagccgttg 180
ttgttccatt gatgaagatg aggtgaagac tgatgcagct tatgtgctat tctatagaag 240

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ggtcagagaa caagacatag caaggggaac tagtaatgga tctcagttat atgcaaaaag 300
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 atgctcatca cgtgcagtca atgcaccgtt gtccagttgt cacagaagat atttcgtgca 480
 gtgctggtac aagatgggaa ttttgtatga ggtgagttga aggagtaatt gactctttat 540
 gataactggg tagcttaaca ggaacgccgg ggcttggggg cattttgttc gtctggtttc 600
 t 601

<210> 13289
 <211> 613
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-100-Q1-K7-G7
 <400> 13289

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 agcctacagg ctacaactag cgcttgccggc gagegcctta caacaaccaa ttgcccaatt 180
 gcaacaacaa tgcttggttg atctaaccct acaaaccatt gcaacgcaac aacaacaaca 240
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 acagcagctg cttgcatcca acccacttgc tctggcgaac gtagctgcat accagcaaca 360
 acaacagctg caacagttta tgccagtgtc cagtcaacta gccatggtga accctgccgt 420
 ctacctaaa ctactttcat ctagcccgtc cgcggtgggc aatgcaccta cgtacctaca 480
 acaacagttg ctgcaacaaa ttgtaccagc tctgactcag ctagctgtgg caaacctgc 540
 tgctactta caacagttgc ttncattcaa ccaactggcc tgggtcaaact ctgttgcggt 600
 cctacaacag cga 613

<210> 13290
 <211> 440
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-100-Q1-K7-G8

<400> 13290

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aagctcacca tgatctcgcc ggagaggagc tcgtcacaga gcccgcggtc ggccggggact 180
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aaaattggta ttcggcgcta tagtgatttt gaatgggtgc atgaacgggt tgctgagagg 360
tgcaaaggcg tttttatacc cctcttttcg gagaagaatg ctgttgagaa atatccggtt 420
tgcaaggagt tcattgaatt 440

<210> 13291

<211> 297

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-100-Q1-K7-H10

<400> 13291

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cagcaacaat tgctaccata cagccagttc tctttgatga accctgcctt gtcgtggcag 180
caacccatcg ttggagggtgc catctttgga ggccgatgan atgtaatcga taatgggtgcc 240
ctaataccgg catgtgtttc ctagaataa tcaatatatt gattgacatt tatctgg 297

<210> 13292

<211> 636

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-100-Q1-K7-H11

<400> 13292

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gtttcgaaaa ttggattgct tggctaagct aaactgagaa tcagccctta gtaattatag 180
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 cggaaactcc agttctggac ttttgaagta agtagtcgaa ttctgtccaa atctggacat 480
 aatttatgtt tagcgtgtt tgacctttgt aaaggctgaa tttgtttgtg atggtaatac 540
 aaaagttata gaggactnta taagctttcc aaaaagttct agtttactat tattggatac 600
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<210> 13293

<211> 495

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-100-Q1-K7-H2

<400> 13293

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 ctgtttccag tgacagtctt ggaatttcaa taccaaaata tacaatacta catggtacaa 180
 gaggagatgc aagcaagcat attacggaaa ttaggattaa cctagaaca accatatact 240
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 caaaaacaga acgcgtacca aacaacaact aagccaccta agcaaactt actgtttacc 360
 ttcatacaaa aaagagtttt tcatataaaa aacaatctgg ggggaacact gatatgtact 420
 tgaaggcaca ccagatacta ccatgtaacc aactaggctg gagccactat gcttggttac 480
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<210> 13294

<211> 632

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-100-Q1-K7-H4

<400> 13294

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tcctatagct tcccttcttc ccccatacct ctcaccagcg gtgtcttcaa tgtgtgaaag 180
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ctctcagcaa catcagtttc ttccattcaa ccaactgggt gcattgaact ctgctgctta 420
tttgcaacaa caattaccat tcagccagct agttgctgcc taccgccagc aatttcttcc 480
attcaaccaa ctagcagcat tgaactctgc tgcttattta cagcagcaac aactactacc 540
attcagccag ctagctgatg tgagccctgc tgncttcttg acacaacaac aggtgttgcc 600
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<210> 13295

<211> 558

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-100-Q1-K7-H6

<400> 13295

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tgtccgcaga ggtcggggcg gtggcggtgg cggaggcgcg gacgtgccag tcgcagaggc 180
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tcgctgtgtg ttgaagcgtt cgatcgtcgg tctagtagtg tgctgtgag cagcggcgctg 480
ctgttgtaag tacgtntgcc tntgttccat gtttcgggat tttccatagc aaatgcatgc 540

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558

<210> 13296

<211> 611

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-100-Q1-K7-H7

<400> 13296

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ctttctccct actctcagca acaacaattt cttccattca accaactgtc tacactggag 180
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cagcaacaac aacttcttcc atttaaccaa ttggccgcac tgaacccgcg tgcttatttg 300
cagcagcaaa tactactacc atttagccag ctagctgcag caaacctgct ttgcttcttg 360
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caacaacaca tgattggtgg tgccctcttt tagattgctt attagtggga attcaataat 540
aaagtttttt ggatgatgta tgtggccaac ccgaaataag aagtggcatt tgcagatgta 600
atgtggattt g 611

<210> 13297

<211> 487

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-100-Q1-K7-H8

<400> 13297

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ggggcacgga cgaccactcc cttcacaacg ctttcagcac ctacggcgag gtcctcgagg 180
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ccacggagga ggcgatgcgg aacgccatcg agggcatgaa cggcaaggag ctggacgggc 300
gcaacatcac cgtcaacgag gccagtccc gcggcggccg tggaggcggc ggcggcggcg 360
ggtactgtgg tggccgtgga ggcggcggct accgcggtgg cgggcgcctt gatggcggcg 420
gcggctactg cngtggcggc ggctactgtg gtggcggcng cggtactgtt ggtggtggcg 480
gcggcta 487

<210> 13298

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-100-Q1-K7-H9

<400> 13298

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ggcggctgcg gctgccagcc accggcgccg gttcatctac cgccgccggt gcatgggtggc 180
gcgggtgcgg tccactgcca cctccgggtgc atatnccacc gncgggtccac ctgccgccgg 240
cgggtccacct gccaccgncg gtccatgtgc cggcgccggt tcactctggcg gcggcaccat 300
gccactaccc tactgaaccg gcccgggctc aggctgatgc ccagccacac ccatgcccgt 360
gccaacaggc gtatgcaagc ccgtgccagc tgcagggaac ctgcgggggtt gggagcccc 420
cgatcctggg ccagtgcg 438

<210> 13299

<211> 480

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-K6-A1

<400> 13299

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caacaacttc ttccatttaa ccaattggcc gcactgaacc ccgctgctta ttgagcagc 180

caaatactac taccatttag ccagctagct gcagcaaacc gtgcttcctt cttgacacag 240
 caacagttgc tgccctttcta ccagcagttt ggggctaacc ccgcaaccct cttacaacta 300
 caacaattgt tgccctttgt ccaacttgct ttgacagacc gagcggcctc ctaccaacaa 360
 cacatcattg gtgggtgccct ctttttagatt gcttattagt tgtaattcaa taataaagtt 420
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<210> 13300

<211> 220

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-080-Q1-K6-A10

<400> 13300

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 agaacagcan ngaagagggc ancgnnncng ncnngggccn ggcncngnca gcngccagcg 120
 cccngcaan gcagangccc ngccccngcg cggggcngca gggccngnac ggcgcngggc 180
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<210> 13301

<211> 635

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-K6-A11

<400> 13301

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 ccctcaatgc tcacaagctc ctatagcttc ccttcttccc ccataccttc catcaattat 180
 agcttcaata tgtgaaaacc cagctcttca accatatagg cttcaacaag caatcgagc 240
 aagcaacata cttttatcgc cttgttgtt tcaacaatcg ccagccctat ctttggtgca 300
 gtcattggta caaacatca gggcacaaca gctgcagcaa ctctgtctac ctctgatcaa 360
 ccaagtagct ctggcaaacc tttctcccta ctctcagcaa caacaatttc ttccattcaa 420
 ccaactgtct aactgaacc ctgctgctta ttgacagcaa caactattac catttagcca 480

gctagctact gcctactctc agcaacaaca acttcttcca ttttaaccaat tggccgcact 540
gaaccccgct gcttatttgc agcagcaaat actactacca tttagccagc tagctgcagc 600
aaaccgtgct tccttcttga cacagcaaca gttgc 635

<210> 13302

<211> 615

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-K6-A12

<400> 13302

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atccctcttt gcgcttcttg ccttttttgt gagcgcaaca aatgcgttca ttattccaca 120
atgctcactt gctcctagtgc ccattattcc acagttcctc cctccagtta cttcaatggg 180
cttcgaacac ccagctgtgc aagcctacag gctacaacaa gcgcttgagg cgagcgtctt 240
acaacaacca attgcccaat tacaacaaca atccttggca catctaacca taaaaccat 300
cgcaacgcaa cagcaacaac aatttctacc agcactgagc caactagctg tgggtgaacc 360
tgctgcctac ttgcaacagc agttgcttgc atccaacca cttgctctgg caaacatagt 420
tgcataccaa caacaacaac aattgcaaca gtttctacca gcgctcagtc aactagccat 480
ggtgaaccct gccgcctacc tacaacagca acaactgatt tcactctagc ctctcgctgt 540
ggttaatgca cctacatacc tgcaacaaca gttgctgcaa cagattgtac cagctctgac 600
tcagctagct gtggc 615

<210> 13303

<211> 625

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-K6-A3

<400> 13303

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tcaggatcca acaggcaatc gcagctggca tcttaccttt atcacccctg ttcctccaac 180

aatcatcagc cctattacaa cagttacctt tgggtgcattt attggcacaa aacatcaggg 240
cacaacaact acaacaactt gtgctagcaa accttgctgc ctactctcag caacagcagt 300
ttcttccatt caaccaacta ggttcattga actctgcttc ttatttgcaa caacaacaac 360
taccattcag ccagctacct gctgcctacc cccagcaatt tcttccattc aaccaactag 420
cagcattgaa ctctcctgct tatttacagc agcaacaact actaccattc agccagctag 480
ctggtgtgag ccctgctacc ttcttgacac aaccacagtt gttgccgttc taccagcacg 540
ttgcgcctaa cgctggcacc ctcttaaac tgcaacaatt gctgccattc aaccaacttg 600
ctttgacaaa cccagcagtg ttcta 625

<210> 13304
<211> 657
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-080-Q1-K6-A4
<400> 13304

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ctcgcaagct cctatagctt cccttcttcc cccgtacctc tcaccagcgg tgtcttcggt 180
atgtgaaaac ccaattcttc aaccctacag gatccaacag gcaatcgcag ctggcatctt 240
acctttatca cccttggttc tccaacaatc atcagcccta ttacaacagt tacctttggt 300
gcattttattg gcacaaaaca tcagggcaca acaactacaa caacttgctg tagcaaacct 360
tgctgcctac tctcagcaac agcagtttct tcattcaac caactagggt cattgaactc 420
tgcttcttat ttgcaacaac aacaactacc attcagccag ctacctgctg cctaccccca 480
gcaatttctt ccattcaacc aactagcagc attgaactct cctgcttatt tacagcagca 540
acaactacta ccattcagcc agctagctgg tgtgagccct gctaccttct tgacacaacc 600
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<210> 13305
<211> 102
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-K6-A5

<400> 13305

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aatattttgc ctccttatgc tccttgggtct ttctgcagtg ct 102

<210> 13306

<211> 663

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-K6-A7

<400> 13306

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atgctccttg gtctttctgc aagtgttgct accgcaacca ttttcccaca atgctcacia 120

gctcctatag cttcccttct tccccatac ctctcaccag cggtgtcttc aatgtgtgaa 180

acccaattg ttcaacccta caggatccaa caggcaatcg caacaggcat cttaccatta 240

tcacccttgt tcctccaaca accgtcagcc ctattacagc agttaccttt ggtccatttg 300

gtggcacaaa acatcagggc acaacaacta caacaacttg tgctagcaaa ccttgctgca 360

tactctcagc aacatcagtt tcttccattc aaccaactgg ctgcattgaa ctctgctgct 420

tatttgcaac aacaattacc attcagccag ctagttgctg cctacccccca gcaatttctt 480

ccattcaacc aactagcagc attgaactct gctgcttatt tacagcagca acaactacta 540

ccattcagcc agctagctga tgtgagccct gctgccttct tgacacaaca acagttgttg 600

ccgttctacc tgcacgctat gcctaacgct ggcacctct tacaactgca acaattgctg 660

cca 663

<210> 13307

<211> 623

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-K6-A8

<400> 13307

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tccttgggtct ttctgcaagt gctgctacgg cgaccatttt cccgcaatgc tcgcaagctc 120
 ctatagcttc ccttcttccc ccgtacctct caccagcggg gtcttcggta tgtgaaaacc 180
 caattcttca accctacagg atccaacagg caatcacagc tggcatctta cctttatcac 240
 ccttgttctt ccaacaatca tcagccctat tacatcagtt acctttgggtg cattttattgg 300
 cacaaaacat cagggcacaa caactacaac aacttgtgct agcaaaccctt gctgcttact 360
 ctacagcaaca gcagtttctt ccattcaacc aactagctgc attgaactct gcttcttatt 420
 tgcaacaaca acaactacca ttcagccagc tacctgctgc ctacccccag caatttcttc 480
 cattcaacca actggcagca ttgaactctc ctgcttattt acagcagcaa caactactac 540
 cattcagcca gctagctggg gtgagccctg ctaccttctt gatacaacca cagttgttgc 600
 cgttctacca gcaagctgcg cct 623

<210> 13308
 <211> 635
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-080-Q1-K6-A9
 <400> 13308

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 acccggggcgt ctggaccacc tacatcctcc tgetcttctt cgcttggctc ctgctcctct 180
 ccgtctctgg ttgtccccc ggagcagcct ggaccgtcgt aaacctcgcg cacttcgcca 240
 tcacttacca cttcttccat tggaagaaag gaaccccttt tgctgctgat gaccaaggca 300
 tctacagcag attgacatgg tgggagcaaa ttgacaatgg tcagcagctt actcggaaca 360
 gaaagttttt gactgtggta cctgtgggtgc tgtatctgat cgcacgcac ttgactgact 420
 acaagcagcc gatgtttttc ctcaatacaa tggcagtttt tgtgctagtt gtggcaaaat 480
 tgccaaacat gcacaagtc cgcataattg gaatcaatgg agacatctga ggaccactgc 540
 aggaagtaca tggatgcaat gccatgatgt gatgaagagc taaacagaac aagcagtgtg 600
 tttctcaaac ttgacacaac tgtctgtaat atatg 635

<210> 13309
<211> 661
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-080-Q1-K6-B1

<400> 13309

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cggccaagat attttccatc cttatgctcc ttgctctttc tgcattgtgt gctaacgcga 120
ccatttttcc tcaataactca caagctccta tagctgcctt tcttccccca taccttccat 180
caatgaccgc ttcagtttgt gaaaaccag cccttcaacc ctacaggctc caacaagcaa 240
tcgcaacaag caacttacct ttatcaccct tgttctttca acaatcgcca gccctatctt 300
tggtgcagtc attggtacaa accatcaggg cacaacagct gcaacaactc gtgctaccag 360
tgatcagcca agtagctctg gaaaaccttt ctccctactc tcagcaacaa caatttcttc 420
cattcaacca actgtctaca ctgaaccctg ctgcttattt acaacaacaa caactactac 480
cattcagcca gctagctact gcctactctc agcagcaaca atttcttcca tttaccaat 540
tggccgcact gaacccctct gcttatttcc agcagcaaat actactacca tttggccagc 600
tagctacaac aagccccact tcctttntga aacaacaanc attgcttccg ttctaccagc 660
a 661

<210> 13310
<211> 636
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-K6-B10

<400> 13310

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cgtcaaaggc accaggctga gcaaccctc tctctctccc tcttatcccc aaggcgagga 120
gaggagcgga gaggagggcc cttctgcttg tttctccgct ttgcaagatg tcgtccccga 180
gcaagcgccg cgagatggac cttatgaagc tgatgatgag cgactacaag gtggagatgg 240
tgaacgacgg gatgcaggaa ttcttcgtcg aattcaaggg cccggccgaa agtatctacc 300

aaggtggtgt ctggaaggtt cgggtagaac tgctgatgc ataccottac aaatccccgt 360
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gtttggatgt cataaaccag acatggagcc caatgtttga tctagtaa at gtttttgaag 480
tattccttcc acagctgttg ctgtacccaa atccttctga tccattaa at ggggaggctg 540
cagcactgat gatgcgtgat cggcctgttt atgaacagaa agtgaaagaa tattgtgaaa 600
agtatgctaa accagaggac gctggcatca ccccg 636

<210> 13311
<211> 569
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-K6-B11

<400> 13311

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cacaagctcc tatagcttcc cttcttcccc catacctctc accagcgggtg tcttcaatgt 180
gtgaaaaccc aattgttcaa ccctacagga tccaacaggc aatcgcaaca ggcattctac 240
cattatcacc cttgttctc caacaaccgt cagccctatt acagcagtta cctttggctc 300
atttgggtggc aaaaaacatc agggcacaac aactacaaca acttgtgcta gcaaacttg 360
ctgcatactc tcagcaacat cagtttcttc cattcaacca actggctgca ttgaactctg 420
ctgcttattt gcaacaacaa ttaccattca gccagctagt tgctgcctac cccagcaat 480
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tactaccatt cagccagcta gctgatgtg 569

<210> 13312
<211> 619
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-080-Q1-K6-B12

<400> 13312

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 tcgggctgca gcagtttctt ccggccaccc agaccgagct gcacgagctc ctccggcaagc 240
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 agtcatctac tgttaactcc atcgtcgggg agaggatcgc cactgtcagc gctttccagt 360
 ctgaggggtct gagaccgatg atgtggctgc gcacaagggc agggttcacc ttgaacatta 420
 tcgacactcc tgggcttatt gaaggtggat acattaatga gcaggctgtt gacatcatta 480
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 gtacagaatg gatacacttg atggacaggt tataagagcc atcaccaatt catcttgaaa 600
 agatatttgg cgaagatca 619

<210> 13313
 <211> 190
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-080-Q1-K6-B3
 <400> 13313

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 aggggtgccag cgtagggcgc agcctgttta ttacaggag caagagttac taccattcag 120
 ccagctagct ggtgtgagcc ctgctacctt cttgacacag ccncagctgt ttccgttttt 180
 tggctcgtc 190

<210> 13314
 <211> 121
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-080-Q1-K6-B4
 <400> 13314

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 aaaaagattt aaaggaacca aaattaaaaa acacgggcat gtcgaaggaa taactttaat 120

<210> 13315
 <211> 637
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-080-Q1-K6-B5

 <400> 13315

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 cccagcaat ttcttccatt caaccaacta gcagcattga actctgctgc ttatttacag 180
 cagcaacaac tactaccatt cagccagcta gctgatgtga gccctgctgc cttcttgaca 240
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 caacccatca ttggtggtgc cctcttttag attgcttatg agttatagtt caataatgaa 420
 gtttttttga tgatgtttgt ggcgtcccag aaataagaaa gtacatttct agaaaaaaaa 480
 aaaaaaaaaa aaaaaaaaaa aaattttttna aaaaaanaaa anaaaaaaaa aaaaaaaaaa 540
 aaaaaaaaaa aaaaanaaan aaaanaaaaa aaanaaaaaa aaanaaaaaa aaanaaaaaa 600
 aaaaaaaaaa aaaaaaaaaa ggggggctgt ttttaagg 637

<210> 13316
 <211> 625
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-080-Q1-K6-B6

 <400> 13316

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 tgctcgcaag ctcttatagc ttcccttctt ccccggtacc tctcaccagc ggtgtcttcg 180
 gtatgtgaaa acccaattct tcaaccctac aggatccaac aggcaatcac agctggcatc 240
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gtgcatttat tggcacaaaa catcagggca caacaactac aacaacttgt gctagcaaac 360
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 tctgcttctt atttgcaaca acaacaacta ccattcagcc agctacctgc tgcctacccc 480
 cagcaatttc ttccattcaa ccaactggca gcattgaact ctctgctta tttacagcag 540
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<210> 13317

<211> 649

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-K6-B7

<400> 13317

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 acaacaagca attgcggcga gcgtcttaca aacaaccaatt tcccagttgc aacaacaatc 120
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 gttgcaacag attgtaccag ctctgactca gctagttgtg gcaaaccctg ctgcctactt 480
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 ggcacaacag ttacttaatc cactagcagt ggctaacca ttggctcgtg ccttcctaca 600
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<210> 13318

<211> 640

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-080-Q1-K6-B8

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gctcacttgc tcctagtcc attattccac agttcctccc accagttact tcaatggcct 180
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caacgcaaca gcaacaacag ttctaccag cactgagcca cctagccatg gtgaaccctg 360
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caaaccagca acaacaacaa ctgcaacagt ttctgccagc gcttagtcaa ctagccatgg 480
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ccaatgcacc tacatactg caacangaat tgttgcaaca gattgtacca gctctaactc 600
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<210> 13319

<211> 301

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-080-Q1-K6-B9

<400> 13319

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ctctgccctc accgtcggac agcgagggtc caatcctnct ttgaggatta tcattctaac 180
gaaagcttgc tcagttcgac agagaaacgt atccctgacc gtgtgggggt tgcccggggg 240
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t 301

<210> 13320

<211> 648

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-080-Q1-K6-C1

<400> 13320

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ctcgcaagct cctatagctt ccctttcttcc cccgtacctc tcaccagcgg tgtcttcggt 180
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acctttatca cccttggtcc tccaacaatc atcagcccta ttacaacagt tacctttggt 300
gcatttattg gcacaaaaca tcagggcaca acaactacaa caacttgtag tagcaaacct 360
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tgcttcttat ttgcaacaac aacaactacc attcagccag ctacctgctg cctaccccc 480
agcaatttct tccattcaac caactagcag cattgaactc tctgcttat ttacagcagc 540
aacaactact accattcagc cagctagnct ggtgtgagcc ctgctacctt cttgaccaac 600
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<210> 13321

<211> 632

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-K6-C10

<400> 13321

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tcctatagct tcccttcttc ccccatacct ctaccagcgg gtgtcttcaa tgtgtgaaaa 180
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ctctcagcaa catcagtttc ttccattcaa ccaactgggt gcattgaact ctgctgctta 420
tttgcaacaa caattaccat tcagccagct agttgctgcc taccoccagc aatttcttcc 480
attcaaccaa ctagcagcat tgaactctgc tgcttattta cagcagcaac aactactacc 540

attcagccag ctagctgatg tgagccctgc tgccttcttg acacaacaac agttgttgcc 600
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<210> 13322

<211> 595

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-K6-C11

<400> 13322

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ttcttgtaca cagacaggcg gctgcagctg tggtaacaa caaagccctg agcaggaaca 180
ttatccacaa caacatcatc caaaaaaca acaacatcga ccaccaccac aacatcacca 240
gcagcagcaa caccaacaac aacaagttta catgcaacca caaaaacatc agctacaaca 300
agaagttgat gttcaacaac aacaacaaca accgcagcac ctacaacaac aacgacaaca 360
acagcgccaa caacaacatc aatgtgaagg ccaacaacaa catcaccaac aatcacaagg 420
ccatgtgcaa caacacgaac agagccgtga gctacacca ggacagagcc atgagcaaca 480
acatcaacaa caatttcagg gtcttgacaa gcagtaacaa ccacaacagc ctcagcaata 540
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<210> 13323

<211> 636

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-K6-C12

<400> 13323

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cagcaactgag ccacctagcc atggtgaacc ctgccgcta cttgcaacag cagttgcttg 240
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agttttctgcc agcgctcagt caactagcca tgggtgaaccc tgccgcctac ctacaacagc 360
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aattgttgca acagattgta ccagctctga ctcagctagc tgtggcaaac cctgctgcct 480
acttacaaca gttgcttcca ttcaaccaac tggctgtgtc aaactctgct gcgtacctac 540
aacagcgaca acagttactt aatccattgg cagtggctaa cccattgggc gctaccttcc 600
tgcagcagca acaacaattg ctgccatata accagt 636

<210> 13324

<211> 610

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-K6-C3

<400> 13324

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cagcccaggg tctcaacccc atggccatga tgatggcgca gaacatgccg gccatgggtg 480
gactctacca gtaccagctg cccagctacc gcaccaaccc ctgtggcgtc tccgctgcca 540
ttccgcccta ctactgattc atgatatttg gggaaatctc ctctatccat ctctctctat 600
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<210> 13325

<211> 553

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-080-Q1-K6-C4

<400> 13325

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 catacgcccta cgatggacag tttccagatt gaaacagcta ccgagatggt cacaatctc 180
 ataacaagtt ttgatacaga gggccgctac cttctgttga atgcaattgc aaaccaactg 240
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 gcttcccagg agattattca ggagcaaata acaagggttc ttctggagcg tcttatagtg 360
 aaccgcccc atccttgggg ggtacttatt acttccattg aattgataaa gaatccgcgt 420
 tacaactttt ggaaccggtc ttttacacat agtgcacctg agattgagaa actgtgtgag 480
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<210> 13326
 <211> 572
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-080-Q1-K6-C6
 <400> 13326

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 gccacggcgg cgtggggcgc gacccccgac gacgcggggc gctgggtgc ggggccccct 180
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 cgcgcgcggt gattcggcgc tgccccgcgt gtaggcggcc ccggcgggtgc ggcgggcaag 300
 ccctggcgcg ggcactaccg gccatggtac gccggtgcgg gcgcatctcg gcgtttcggc 360
 caggcgcggg cgtagccata gcggcggggc agcgcagacc gtgtggcccc tgcgtgggca 420
 cagtcgcggc cagacccgag aacgcgactc cgtcgagggc ggggcccata gcggcggcac 480
 ggtcacggaa agccccagcg tgtgcatcgt cgccacaag catcagccct tgccttgttt 540
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<210> 13327
 <211> 595

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-080-Q1-K6-C7
 <400> 13327

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 tcggcgctgc cgtacaagag gacgcctcct acctggctca agaccgctgc ctccgacgtg 180
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 aaggcgggtg cgataaggaa gcaccttgag aggaacagga aggacaaaga ctctaaattc 420
 aggctcattc ttgtggagag caggatccac cgccttgccc gctactacaa gcgcacaaag 480
 aagcttccac ccacctggaa gtatgagtca accacagcga gcactctggt ggcctaagtg 540
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<210> 13328
 <211> 423
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-080-Q1-K6-C8
 <400> 13328

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 tggcagggtt tgccctcagtt cattcaccaa gcactctaca acatggttca ttccataatc 120
 caggatgagc aacagcaaca accatgtgag ttatgtggat ctcaacaagc ttctcaaagt 180
 gcggtgggcg tcttgacagc agcacagtcc ctcccatcaa tgtgcggctt gtccactca 240
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 gtgtcgtcct agccgttatg ctcacatcac ggtgtttcgc tgtgcagtcc catgcattat 360
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<210> 13329
<211> 603
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-K6-C9

<400> 13329

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cggggacgcg tagttgttgc cggccgcacc tcagctgcgc cctctcctac tccaggggga 180
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ccttgaatct cgctggcatt gaccacagat gcacaccgga gcatgcggcg aggacctgca 360
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cagaaaaaga gctaaaagca ctgcaattct tgtagagaag agagtgcgag ttcgaccaga 480
agatatgcat gggtttctac atggaaggag atcccttgaa accagctgtg acaggcgtct 540
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<210> 13330
<211> 607
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-K6-D1

<400> 13330

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gagcaaagca gattcttgca actattcctg gacgggcaac aggtgcatat agtcacagtc 180
agggtatcaa aggattgcgt gatgcaattg ctgctgggat cacctcacgt gacggattcc 240
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tgcaattact gattaggaat gagaaagatg gcattctgtg cccaattcct cagtaccctc 360
tgtactcggc ctccatagct cttcatggtg gagctcttgt cccctattac cttgatgaaa 420
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aaactgggtg ggggttttggga gatctctgat ctttaagaaac aactcgaaga tgctcgggtca 480
aaaggcattg atgttagggc cttgggtgggtt atcaatccag gaaatccgac tgggcaggtt 540
cttgctgaag acaaccaata tgatatagtg aaattctgta aaaatgaggg ccttgttctt 600
ctagctg 607

<210> 13331

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-K6-D10

<400> 13331

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agccagctag ctggtgtgag ccctgctacc ttcttgacac aaccacagtt gttgccgttc 180
taccagcacg ctgcgcttaa cgctggcacc ctcttacaac tgcaacaatt gctgccattc 240
aaccaacttg ctttgacaaa cctagcagtg ttctaccaac aacccatcat tgggtggtgcc 300
ctctttttaga tttcttatga gttatagttc aataataaag ttttttgtct gatgtttgtg 360
gcttcccaga aataagaaag tacattttctg 390

<210> 13332

<211> 607

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-K6-D11

<400> 13332

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acaagctcct atagcttctt ttcttcccc atacctctca ccagcgggtgt cttcagtatg 180
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tttggttgca caaaacatca aggcacaaca actacaacaa cttgtgctag gaaaccttgc 360

tgcctactct cagcaacagc agttttcttc attcaaccaa ctggctgcat tgaactctgc 420
 tgcttatttg caacaacaac taccattcag tcagctagct gctgcctacc cccagcaatt 480
 tcttccattc aaccaactgg cagcattgaa ctctgctgct tatttacaac agcaacagct 540
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<210> 13333
 <211> 639
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-080-Q1-K6-D2

<400> 13333

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 cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaattata 180
 gcttcagtat gtgaaaaccc agctcttcaa ccatataggc ttcaacaagc aatcgagca 240
 agcaacatac ctttatcgcc cttgttggtt caacaatcac cagccctatc tttggtgcag 300
 tcattggtac aaaccatcag ggcacaacag ctgcagcaac tcgtgctacc tgtgatcaac 360
 caagtagctc tggcaaacct ttctccctac tctcagcaac aacaatttct tccattcaac 420
 caactgtcta cactgaaccc tgctgcttat ttgcagcaac aactattacc atttagccag 480
 ctagctactg cctactctca gcaacaacaa cttcttccat ttaaccaatt ggccgcactg 540
 aaccccgctg cttatttgca gcagcaaata ctactgccat ttagcgagct agctgcagna 600
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<210> 13334
 <211> 651
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-080-Q1-K6-D4

<400> 13334

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gcatacaagc ggcggctgcg gctgccagcc accgccgccg gttcatctac cgccgccggg 120
gcatctgcca cctccgggtt acctgccacc tccgggtgcat ctcccaccgc cgggtccacct 180
gccgccgccg gtccacctgc caccgccggg ccatgtgccg ccgccgggtt atctgccgcc 240
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atgcccgtgc caacagccgc atccaagccc gtgccagctg cagggaacct gcggcggttg 360
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gcagcagcag ccgcaaagcg gccaggctgc gngctggtg gcggcgagca tagcgagca 600
actgacggcg atgtgcggcc tgcagcagcc gactccatgc cctacgctg c 651

<210> 13335
<211> 557
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-080-Q1-K6-D5
<400> 13335

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tttttcccca ttcttttac cagcggggtt ttcaatgggt gaaaccccaa ttggtcaacc 180
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gttttttcca ttcaaccaac tggcgtgcat tgaactctgc tgcttatttg caacaacaat 420
taccattcat ccagctagtt gctgtctacc ccagcaatt tctttcattc aaccaactag 480
cagcattgaa ctctgctgct tatttacagc agcaaccact actaccattc atncagctag 540
ctgatgtgag ccttgc 557

<210> 13336
<211> 626
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-K6-D6

<400> 13336

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gccacggcgg cgtggggcgc gacccccgac gacgcgggcg gcctgggtgc ggggccgggg 180
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<210> 13337
<211> 469
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-080-Q1-K6-D7

<400> 13337

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tagcggcgat gattgagtaa taatgtgtca cgcacacca tgggtggcag tgtcagtgtg 420
agcaatgacc tgaatgaaca attgaaatga aaagaaaaag tattgttcc 469

<210> 13338
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-K6-D8

<400> 13338

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tgacacaaca acaagtgtt ccgttctacc agcagtttgt ggctaacccc gcaaccctct 180
tacaactgca acagttgtg cctttgtcc aacttgcttt gacaaacca gcagccttct 240
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<210> 13339
<211> 659
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-K6-D9

<400> 13339

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cgcaacaaat gcgttcatta ttccacagt ctcacttgct cctagtgcc ttattccaca 180
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acagtttatg ccagtgtc gtcaactagc catggtgaac cctgccgtct acctacaact 540

actttcatct agcccgctcg cgggtgggcaa tgcacctacg tacctacaac aacagttgct 600
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<210> 13340
<211> 509
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-K6-E1

<400> 13340

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caacaacaat taccattcag ccagctagtt gctgcctacc ccagcaatt tcttccattc 180
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aaccaacttg ctttgacaaa cccaacagtg ttctaccaac aacctatcat tgggtggtgcc 420
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gcgtcccaga aataagaaag tacattttct 509

<210> 13341
<211> 624
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-080-Q1-K6-E10

<400> 13341

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agcaacaaca gttectacca gcactgagcc acctagccat ggtgaaccct gccgcctact 360
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<210> 13342

<211> 631

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-K6-E11

<400> 13342

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cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaatgata 180
gcttcagtat gtgaaaacc agctcttcag ccctataggc tccaacaagc aatcgagca 240
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tcattggtac aaaccatcag ggcacagcag ctgcagcaac tcgtgctacc tgtgatcaac 360
caagtagctc tggcaaacc tttccctac tctcagcaac aacaatttct tccattcaac 420
caactgtcta cactgaacc tgctgcttat ttgcagcaac aactattacc attcagccag 480
ctagctactg cctactctca gcaacaacaa cttcttccat ttaaccaatt ggccgcactg 540
aaccgcgctg cttatttgca gcagcaaata ctactaccat ttagccagct agctgcagca 600
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<210> 13343

<211> 659

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-K6-E2

<400> 13343

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 tcacaagctc ctatagcttc ctttcttccc ccgtacctct caccagcggg gtcttcggta 180
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 cctttatcac ccttggttct ccaacaatca tcagccctat tacagcagtt acctttgggtg 300
 catttattgg cacaaaacat caggggcacaa caactacaac aacttgtgct agcaaactt 360
 gctgcctact ctcagcaaca acagtttctt ccattcaacc aactagctgc attgaactct 420
 gcttcttatt tgcaacaaca acaactacca ttcagccagc tatctgctgc ctacccccag 480
 caatttcttc cattcaacca actgacagct ttgaactctc ctgcttattt acagcagcaa 540
 caactactac cattcagcca gctagcctgg tgtgagcctt gctaccttct tgacacaacc 600
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<210> 13344

<211> 656

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-K6-E4

<400> 13344

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 gctcctatag ctcccttct tccccgtac ctctcaccaa cgggtgtctt cgtatgtgaa 180
 aaccaattc ttcaacccta caggatccaa caggcaatcg cagctggcat cttaccttta 240
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 tatttgcaac aacaacaact accattcagc cagctatctg ctgctacctt ccagcaattt 480
 ctccattca accaactgac agcattgaac tctcctgctt atttacagca gcaacaacta 540
 ctaccattca gccagctagc tgggtgtgagc cctgctacct tcttgacaca accacagttg 600
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<210> 13345
<211> 672
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-K6-E6

<400> 13345

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atgcgttcat tattccacag tgctcaactg ctcctagtgc cagtattcca cagttcctcc 180
caccagttac ttcaatgggc ttccaacatc cagccgtgca agcctacagg ctacaactag 240
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atctaaccct acaaaccatt gcaacgcaac aacaacaaca acagtttctg ccatcactga 360
gccacctagc cgtggtgaac cctgtcacct acttgcaaca gcagctgctt gcatccaacc 420
cacttgctct ggccaacgta gctgcatacc agcaacaaca acagctgcaa cagtttatgc 480
cagtgtcag tcaactagcc atggtgaacc ctgcggtcta cctacaacta ctttcatcta 540
gcccgtcgc ggtgggcaat gcacctacgt acctacaaca acagttgctg caacaaattg 600
taccagctct gactcagcta gctgtggcaa accctgctgc ctacttaca cagttgcttt 660
cattcaacca ac 672

<210> 13346
<211> 640
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-K6-E7

<400> 13346

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tcctatagct tcccttcttc ccccatacct ctcaccagcg gtgtcttcaa tgtgtgaaac 180
cccaattggt caacctaca ggatccaaca ggcaatcgca acaggcatct taccattatc 240
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ggcacaaaac atcagggcac aacaactaca acaacttgtg ctagcaaacc ttgctgcata 360
 ctctcagcaa catcagtttc ttccattcaa ccaactggct gcattgaact ctgctgctta 420
 tttgcaacaa caattacatc tcagccagct agttgctgcc tacccccagc aatttcttcc 480
 attcaaccaa ctagcagcat tgaactctgc tgcttattta cagcagcaac aactactacc 540
 attcagccag ctagctgatg tgagccctgc tgccttcttg accaacaaca gttgttgccg 600
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<210> 13347

<211> 645

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-K6-E8

<400> 13347

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 tgggtggccgt ggccgtctgc caaggcgagg tcgagcggca gaggctcagg gacctgcagt 180
 gctggcagga ggtccaggag agcccgtctg acgcgtgccg ccaggctctc gaccggcagc 240
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 ggggctacga ggaggccatg ccgcctctgg agaaaggctg gtggccatgg ggggcggcag 420
 cagcagccgc cgccgcaggg aggaggagga ggacaggggg gctactacta cccctgcagc 480
 cgggcaggag agggatacca aacgcagatg tatccaccgt gtcgtcccgg caccaccggg 540
 ccaaggatcg gccgcgtgag gcttacgaag gcccgggagt acgccgcggg gttgccgatg 600
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<210> 13348

<211> 642

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-K6-E9

<400> 13348

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tatgggtcgt ggaattgtca gtcgacttac tggttggtgcc gaagttcaga aactttgtgc 180
tcaagcagta gatgctgtgg aatcattggt ctcggctgta tctcctgcta gttcaaaaat 240
tcagcggcca tgtatgatgc caccaaactt tgtaaagttt gaagctataa cccaaacatc 300
cgtcatggta tttttggatt tggttgattg tcctatgctt gcccaagagg caacttcttt 360
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acttgcgcca ttgaaaaaat tacttgtcac ttggcttgca cgggtacaa gctatatctt 480
taaggttgtc gcgttcaaga actcaattga gttgggttca tgggaaatta gaatgaagac 540
aagctgtcaa aaggatgatc caaggggttc aatgccaggc ggtaccggac taggacaaaa 600
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<210> 13349

<211> 139

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-K6-F1

<400> 13349

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gcccaaaata tcgtgtacaa cttgcatgat gatgtgttgt taactttgga agctctatat 120
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<210> 13350

<211> 631

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-K6-F10

<400> 13350

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cttccaagac attatccctc cttgcgcttc ttgctctttt tgtgagtgc acaaatgcgt 120
tcattattcc acaatgctca cttgctccga gtgccattat tccacagttc ctcctccag 180

ttactttcaat gggcttcgaa caccagctg tgcaagccta taggctacaa caagcgcttg 240
 cggcgagcgt cttagaacaa ccaattgcc aattacaaca acaatccttg gcacatctaa 300
 ccatacaaac catcgcaacg cagcagcaac aagcactgag ccacctagcc gtggtgaacc 360
 ctatcgcta cttgcaacaa cagctgcttg catccaaccc acttgctttg gcaaacgtag 420
 ctgcatacca acaacaacaa cagttgcaac agtttctacc agcgctcagt caactagcca 480
 tgggtgaaccc tatcgcttac ctacaacagc aacaacttct ttcacttagc ccgctcgcta 540
 tgggcaatgc acctacatac ctgcaacaac agttgttgca acaacagttg ctgcaacaaa 600
 ttgtaccagc tcttactcag ctagctgtgg c 631

<210> 13351
 <211> 660
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-080-Q1-K6-F11
 <400> 13351

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 atgcgttcat tattccacaa tgctcacttg ctcttagtgc cattattcca cagttcctcc 180
 caccagttac ttcaatgggc ttogaacacc tagctgtgca agccaacatg caacaacaag 240
 cgcttgccgc gagcgtctta caacaaccaa ttgcccaatt gcaacaacaa tccttgccac 300
 atctaacaat acaagccatc acaacgcaac agcaacaaca gttcctacca gcactgagcc 360
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 ttgctctggc gaacgtagtt gcaaaccagc aacaacaaca gctacaacag tttctgccaa 480
 cgctcagtca actagccatg gtgaaccctg ccgcctacgt acaacaacaa caactgcttt 540
 catctagccc gctcgctgtg ggcaatgcac ctacatacct gcaacaacaa ttgttgcaac 600
 agattgtacc agctctgact caactagctg tggcaaacc cttgtgcctac ttgcaacagc 660

<210> 13352
 <211> 581
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-080-Q1-K6-F12

<400> 13352

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aaccgtactg agtatcagct gattgatata tcagaggatg gatttgtgag ccttcttact 180
tcagatggca acactaagga tgatcttaga ctcccaactg atgagactct tgtggcccag 240
atcaaggaag ggtttgaaag tggcaaggat cttgtttgtga ctgtccagtc tgctatgggg 300
gaggagcaga tctgcgcgct gaaggatggt ggcccgaagt aacttccttg ccttggaata 360
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atctggcttg agctggcttt tgctatgtca aacacaagtg cagggatcgc tgggtgttgc 480
accgcgtctg cattatctgt ggttacattc tggaccctgt attttctatg cttttatgcc 540
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<210> 13353

<211> 661

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-K6-F3

<400> 13353

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ctcgcaagct cctatagctt cccttcttcc ccggtacctc tcaccagcgg tgtcttcggt 180
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tgcttcttat ttgcaacaac aacaactacc attcagccag ctacctgctg cctaccccca 480
gcaatttctt ccattcaacc aactagcagc attgaactct cctgcttatt tacagcagca 540
acaactacta ccattcagcc agctagctgg tgtgagccct gctaccttct tgacacaacc 600

acagttgttg ccgttctacc agcacgttgc gcctaacgct ggcaccctct tacactgcaa 660
c 661

<210> 13354
<211> 650
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-K6-F4

<400> 13354

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tattccacaa tgctcacaac aatacctctc tccggtgaca gccgcgagat ttgaataccc 180
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tgtgggaaac attaacgcct tcttgcacag caacagttgc taccattcta 650

<210> 13355
<211> 414
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-080-Q1-K6-F5

<400> 13355

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ccatttatcc agctagctga tgtgagccct gctgccttct tgacacaaca acagttgttg 360
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<210> 13356

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-K6-F6

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gctgcttatt tacagcagca acaactacta ccattcagcc agctagctga tgtgagccct 420
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<210> 13357

<211> 645

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-K6-F7

<400> 13357

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 tcaacgcagc atccaaatca acaaagtcag gttcccaaag aagctcctgt tgtcgacagt. 600
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<210> 13358

<211> 617

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-K6-F8

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<210> 13359

<211> 663

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-K6-G1

<400> 13359

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tgc 663

<210> 13360
<211> 139
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-080-Q1-K6-G10
<400> 13360

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<210> 13361
<211> 632
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-080-Q1-K6-G11
<400> 13361

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<210> 13362
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 <212> DNA
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 <223> Clone ID: LIB3061-080-Q1-K6-G3
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<210> 13363
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-080-Q1-K6-G4

<400> 13363

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gcaagctcct atagcttccc ttcttcccc gtacctctca ccagcgggtgt cttcgggtgtg 180
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tgccctactct cagcaacagc agtttcttcc attcaaccaa ctaggttcat tgaactctgc 420
ttcttatttg caacaacaac aactaccatt cagccagcta cctgctgcct acccccagca 480
atttcttcca ttcaaccaac tagcagcatt gaactctcct gcttatttac agcagcaaca 540
actactacca ttcagccagc tagctgggtgt gagccctgct accttcttga cacaaccaca 600
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<210> 13364

<211> 349

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-080-Q1-K6-G5

<400> 13364

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cccgcaaccc tcttacaact acaacaattg ttgccctttg tccaacttgc ttgacaaaac 180
ccagcagcct tctaccaaca acacattatt ggtgggtgcc tcttttagat tgattattag 240
ttgtaattca ataataaagt tttttggatg atgtatgtgg ccaaccagaa ataagaagtt 300
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<210> 13365

<211> 641

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-K6-G6

<400> 13365

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gcttcccttc tttccccgta cctctcacca acggtgtctt cggtatgtga aaaccaatt 180
cttcaaccct acaggatcca acaggcaatc gcagctggca tcttaccttt atcacccttg 240
ttcctccaac aatcatcagc cctattacag cagttacctt tgggtgcattt attggcacia 300
aacatcaggg cacaacaact acaacaactt gtgctagcaa accttgctgc ctactctcag 360
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<210> 13366

<211> 638

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-K6-G7

<400> 13366

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ctcctatagc ttcccttctt cccccgtacc tctcaccagc ggtgtcttcg gtatgtgaaa 180
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cacccttggt cctccaacaa tcatcagccc tattacatca gttacctttg gtgcatttat 300
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actctcagca acagcagttt cttccattca accaactagc tgcattgaac tctgcttctt 420
atttgcaaca acaacaacta ccattcagcc agctacctgc tgctacccc cagcaatttc 480

ttccattcaa ccaactggca gcattgaact ctctgctta ttacagcag caacaactac 540
taccattcag ccagctagct ggtgtgagcc ctgctacctt cttgatacaa ccacagttgt 600
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<210> 13367

<211> 484

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-K6-G9

<400> 13367

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cattattcca cagtgtctac ttgctcctag tgccattatt ccacagttcc ttccaccagt 180
tacttcaatg ggcttcgaac attcagccgt gcaagcctac aggctacaac tagcgcttgc 240
ggcgagcgcc ttacaacaac caattgccca attgcaacaa caattcttgg cacatctaac 300
cctacaaacc attggaacgc aacaacaaca acaacaacag tttctgtcat tactgagcca 360
cctatccgtg gtgaaccctg tcacctactt gcaacagcag ctgcttgcac acaaccact 420
tgctctggcg aacgtagctg tataccagca acaacaacag ctgcaacagt ttatgccagt 480
gctc 484

<210> 13368

<211> 628

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-K6-H11

<400> 13368

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aatgtcact tgctcctagt gccattattc cacagttcct cctccagtt acttcaatgg 180
gcttcgaaca cccagctgtg caagcctaca ggctacaaca agcgcttgcg gcgagcgtct 240
tacaacaacc aattgcccaa ttacaacaac aatccttggc acatctaacc atacaaacca 300

tcgcaacgca acagcaacaa caatttctac cagcactgag ccaactagct gtggtgaacc 360
ctgtcgcta cttgcaacag cagttgcttg catccaaccc atttgcctg gcaaacatag 420
ttgcatacca acaacaacaa caattgcaac agtttctacc agcgctcagt caactagcca 480
tgggtgaaccc tgcgcctac ctacaacagc aacaactgat ttcacttagc cctctcgctg 540
tggttaatgc acctacatac ctgcaacaac agttgctgca acagattgta ccagctctga 600
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<210> 13369

<211> 641

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-K6-H12

<400> 13369

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acaagctcct atagcttccc ttcttcccc gtacctctca ccagcgggtg cttcggtatg 180
tgaaaaccca attcttcaac cctacaggat ccaacaggca atcgagctg gcactctacc 240
tttatcacc cttgttctcc aacaatcctc agccctatta cagcagttac ctttggtgca 300
tttattggca caaacatca gggcacaaca actacaacaa cttgtgctag caaaccttgc 360
tgctactct cagcaacagc agtttcttcc attcaaccaa ctagctgcat tgaactctgc 420
ttcttatttg caacaacaac aactaccatt cagccageta cctgttgct acccccaaca 480
atttcttcca ttcaaccaac tggcagcatt gaactctcct gcttatttac agcagcaaca 540
actactacca ttcagccagc tagctggtgt gagccctgct accttcttga cacaaccaca 600
gttggtgccc ttctaccagc acgctgcgcc taacgctggc a 641

<210> 13370

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-K6-H2

<400> 13370

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catacaagcg gcggctgcgg ctgccagcca ccgccgccgg ttcattctacc gccgccggtg 180
catctgccac ctccggttca cctgccacct ccggtgcac tcccaccgcc ggtccacctg 240
ccgccgccgg tccacctgcc accgccggtc catgtgcgc cgccggttca tctgccgccg 300
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<210> 13371

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-K6-H3

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caacttgctt tgacaaaccc aacagtgttc taccaacaac ccatcattgg tggtagcctc 180
tttttagattg cttatgagtt atagttcaat aatgaagttt tttggatgat gtttgtggcg 240
ttccagaaat aagaaagttc atttctagat tctttaagaa aaaaaaata aaaaaaaat 300
taataaataa ttttttattg tgtaactacg taatTTTTTT tttcttgttt tttttttttt 360
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<210> 13372

<211> 649

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-080-Q1-K6-H4

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tgccattatt ccacagttcc tcccaccagt tacttcaatg ggcttcgaac acctagctgt 180

gcaagccaac atgcaacaac aagcgcttgc ggcgagcgtc ttacaacaac caattgcccc 240
attgcaacaa caatccttgc cacatctaac aatacaagcc atcacaacgc aacagcaaca 300
acagttccta ccagcactga gccacctagc catggtgaac cctgccgcct acttgcaaga 360
gcagctgctt gcatccaacc cacttgctct ggcgaacgta gttgcaaacc agcaacaaca 420
acagctacaa cagtttctgc caacgctcag tcaactagcc atggtgaacc ctgccgccta 480
cgtacaacaa caacaactgc tttcatctag cccgctcgct gtgggcaatg cacctacata 540
cctgcaacaa caattgttgc aacagattgt accagctctg actcaactag ctgtggcaaa 600
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<210> 13373
<211> 480
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-080-Q1-K6-H5
<400> 13373

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ccgtgtaccg accggtgacc gaagcccgtg taaagtaagt acggattacc attctgattt 180
gaacagccaa ttatcgata gcaggcacc ccatccagga gccc aaaggg cctggcattg 240
tgagggtcaat gcagctggga gctctgattg tatgtttaca gcaaggcgct actatgccgg 300
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ctgaaatgct cttgcctgt aaagtttata gtgtacatct gttttgggtc tctctgtacc 420
cattatgaaa cgtagttgct gagagcagga gactgaatgt gacgaggttg catgtggatt 480

<210> 13374
<211> 620
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-080-Q1-K6-H7
<400> 13374

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 atcacagctg gcatcttacc tttatcaccc ttgttctctc aacaatcatc agccctatta 300
 catcagttac ctttgggtgca tttattggca caaaacatca gggcacaaca actacaacaa 360
 cttgtgctag caaaccttgc tgctactctc cagcaacagc agtttcttcc attcaaccaa 420
 ctagctgcat tgaactctgc ttcttatttg caacaacaac aactaccatt cagccagcta 480
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<210> 13375

<211> 635

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-K6-H8

<400> 13375

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 acaacttggt ctagcaaacc ttgctgccta ctctcagcaa cagcagtttc ttccattcaa 240
 ccaactagct gcattgaact ctgcttctta ttgcaacaa caacaactac cattcagcca 300
 gctacctgct gcctaccccc agcaatttct ttcatccaac caactggcag cattgaactc 360
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<210> 13376
 <211> 481
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-A1

<400> 13376

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acgctgctgg gtttgtcaaa gcaagttggg tgaatggcag caattgttgc agttgtaaga  180
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caggtagctg gctgaatggg agttgttggt gttgcaaata agaagcagag ttcaatgcag  420
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<210> 13377
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-A11

<400> 13377

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ggtagaatgc tgttgggttt gtcaaagcaa gttgggtgaa tggcagcaat tgttgagtt  180
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tcaagaaggt agcagggctc acaccagcta gctggctgaa tggtagtagt tgttgctgct  300
gtaaataagc aggagagttc aaagctgtca gttgggtgaa tgggaagaaat tgctgggggt  360
aggcagcaga tagctggctg aatggtagtt gttgttggtg caaataagaa gcagagttca  420
atgcagctag ttggttgaat ggaagaaact gttgttgctg agagtaggca gcaaggtttg  480
ctagcacaag ttgttgtagt tgttggtgcc tgatgttttg tgccaataaa tgcaccaaag  540
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gtaactgctg taatagggct gatgattggt ggaggaacaa gggatgat

587

<210> 13378

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-A12

<400> 13378

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gctggccaaa tgggagtagt atttgctgct ggaaataaac aaaggggttc aatgcggcca 360
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<210> 13379

<211> 604

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-096-Q1-N6-A2

<400> 13379

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<210> 13380

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-A3

<400> 13380

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 tccgcgtagt cccggggcgg gtacactccg aggcgctggg cgacggcggc gaagtgtctg 420
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<210> 13381

<211> 519

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-A6

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 ttttaattggg ttgtatatcc cctaaaatca catttgtaa ggatgagagg agaattggtt 240
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<210> 13382

<211> 594

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-A7

<400> 13382

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 gctgctgggt ttgtcaaagc aagttggaca aagggaaca attgtttag ttgtaagagg 180
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 agagctactt ggttgatcac aggtagcacg agttgctgca gctgctgtgc cttgatgggt 540
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<210> 13383

<211> 549

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-A8

<400> 13383

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<210> 13384

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-B1

<400> 13384

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 tgtgttgggg ggaggaggcc cctccttctt aaaaaggagg gtggacaggg ggcaacattt 180
 gttgttgttg aaaggggggt ggggggtccg ccaacaactg gtggaaaaaa ggcaccaact 240
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<210> 13385

<211> 509

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-B10

<400> 13385

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 tgccacgaca aggcagggtt catcaaagag aactggctgt atggtaccaa ttgttgctgc 180
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 tgtttaggtg acccagcaaa gttcgacaca gtcagtggg tgaatggaag cagctgttgc 300
 aagtaggcag cagggtttgc cacagctagc tgagtcagag ctggtacaat ctgttgctgc 360

aattgttgtt gcaggtatgt aggtgcatta ccacaaacga gagggctaga tgaaagcagt 420
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 aactgttgca attgttgttg ttgttggtta 509

<210> 13386
 <211> 582
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-B11

<400> 13386

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 acactgctgg gtttgtcaaa gcaagttggt tgaatggcag caattgttgc agttgtaaga 180
 ggggtgccagc gttagcgca acgtgctggt agaacggcaa caactgtggt tgtgtcaaga 240
 aggtagcagg gctcacacca gctagctggc tgaatggtag tagttgttgc tgctgtaaat 300
 aagcaggaga gttcaatgct gctagttggt tgaatggaag aaattgctgg gggtaggcag 360
 caggtagctg gctgaatggt agttgttgtt gttgcaaata agaagcagag ttcaatgaac 420
 ctagttggtt gaatggaaga aactgctgtt gctgagagta ggcagcaagg tttgctagca 480
 caagttgttg tagttgttgt gccctgatgt tttgtgcaa taaatgcacc aaaaggtaac 540
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<210> 13387
 <211> 466
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-B12

<400> 13387

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 ttcccaaata tcatgaatca gtagtagggc ggaatggcag cggaaacccc acaggggttg 180
 gtgcggtagc tgggcagctg gtactggtag agtccacca tggccggcat gttctgcgcc 240

atcatcatgg ccatgggggt gagaccctgg gctgccagca gctgctgctg ctgctgcata 300
aaagctggct cgtacaggct gctgctggcg gcagcggcac cctcaagctg catcatcatc 360
tgcagctgct gcgcgacgga ctgcacgtcc atcatectca tctgctgctg gcagcactgt 420
tgccggagcg gctggaacat ggcgctcggc tgccacacc cggcgt 466

<210> 13388

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-B2

<400> 13388

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cattggtggc aaaaacaaaa gagatgagga aaaggcggtc cgacaacat cagatgaccg 180
tgaagagtct agtcgatctc ctggagagag ggcgcgggtg cggcgccacc agcggcggt 240
gcagcgacgt cgtcggcagt aaacttgccc ttagccttgt cggcggcgcg gccccgggcc 300
ttgcggtcga ggagagcctt acggctccttg tcgagcttca gcttgggtgac catcactttg 360
gaggggtgga tgccacggtt cacgggggag ccgttcacct tctcgcggtt gatccgctcg 420
acgtggatga cccagcggcg ggggtacacc tgcaccacct 460

<210> 13389

<211> 75

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-B3

<400> 13389

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gactctagta gaaat 75

<210> 13390

<211> 479

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-B8

<400> 13390

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aagtataact cataagcaat ctaaaagagg gcaccaccaa tgatgggttg ttggtagaac 120
gctgttgggt ttgtcaaagc aagttgggtg aatggcagca attgttgagc ttgtaagagg 180
gtgccagcgt taggcgcagc gtgcaggtag aacggcaaca actgttggtg tgtcaagaag 240
gcaacagggc tcacatcagc tagctggctg aatgggtgta gctgttgctg ttgtaaataa 300
gcagcagagt tcaatgctgc cagttgggtg aatggaagaa attgctgggg gtaggcagca 360
gctagctgac tgaatggtag ttgttggtgc aaataagcag cagagttcaa tgcagccagt 420
tggttgaatg gaagaaactg ctgttgctga gagtaggcag caaggtttcc tagcacaag 479

<210> 13391

<211> 580

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-B9

<400> 13391

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ccccccac ttcgcccctc gggtcaccca gtcatttccc gaccaaccaa cagcaatcaa 120
caccgacacc aggaatgact ctttatctgg tgaccaccaa gaattatcgg cgcaggacga 180
cttaacacga cgactaaaga agcaaaaaaa aaactccaca tgtagtctcc tccttctcgc 240
aggtgccagg gcagggcagg gcagggcacg gccatccgta agtccccctc ctcaattgct 300
gcgcgacttg aagccatggc acaccgacag gatgatgatg aggatgagcg cgatgatgat 360
gcccagcacg atcagcttga tcttcatgtt ttggagccac atcttccgcc gcaccttggt 420
gccctgctgc ctgaaatctt gtgcctgaga acgcagatct tcagttttgt cgacaagcag 480
ttcaatcttc tcgccaggt caagaacctt ctcaatgttt tccatcataa ctcttttgac 540
ttcgagact tgggccttca ccttggcaag cttgctaacc 580

<210> 13392

<211> 584

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-C11

<400> 13392

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tattattgaa ctataactca taagaaatct aaaagagggc accaccaatg atgggttggt 120
ggtagaacgc tgctgggttt gtcaaagcaa gttggttgaa tggcagcaat tgttgcagtt 180
gtaagagggg gccagcggtta ggccagcgtt gctggtagaa cggcaacaac tgtggttgta 240
tcaagaaggt agcagggctc acaccagcta gctggctgaa tggtagtagt tgttgctgct 300
gtaaataagc aggagagttc aatgctgcc a gttggttgaa tggagaagaa tgctgggggt 360
aggcagcagg tagctggctg aatggtagtt gttgttggtt caaataagaa gcagagttca 420
atgcagctag ttggttgaat ggaagaaact gctgttgctg agagtaggca gcaaggtttg 480
ctagcacaag ttgtttagt tggttgccc tgatgttttg tcccataaat gcaccaaagt 540
aactgatgta atagggctga tgattgttgg aggacaaagg tgat 584

<210> 13393

<211> 603

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-096-Q1-N6-C2

<400> 13393

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tttttttttt tttttttttt tttttttttt tttttttttt ttttttttat taaaaaaatt 120
attttttatt taattaaaaa tttaaaaggg ggggggggaa atttttnttt ttgggttttt 180
ttttattttt tttttttttt taaaaaaaaa aaaaaaaggg cccttttttt ttgggggggg 240
gccccaaaaa aaaaaaaaaa aatttttttg ggggcccccc cccccaaaaa aaaaaaagg 300
ggggcccccc caaggggggg ggggggaaaa aaccccgggg gtttaaaaaa aaaagggggg 360
ggaagggggc aaaatggggc aaaaaaaaaa gggggcccca gtggggggcc ggggggggga 420
aaaaaaaaa aaaagggggg gttaaaaaaa aggggggggg ggaaaaacc ccatggggg 480
gaaaagggaa aatgtggggc ccctaaaaaa aaacgggggg gacccccgcc cccccgggg 540

aaaaaaaaa aaaaaggggg ggggggggaa aagggcccg gaaaaaagga aattttttgt 600
 ttg 603

<210> 13394

<211> 571

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-C3

<400> 13394

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 tatcgtctga taaaaaaaaa ggatccaatt cgggaacac tcgattctct aggcatacct 180
 ctaagcagca cgcgacacca gccccacaaa tccattttat aagtttttct cctgctaatt 240
 ttgacggaaa atataaatgc atattactaa taattgaatt aaaaaacgca tcgctataat 300
 aatacatcac tcgtcagaac agccaccggt gaatttttct tgggagagga ggggaggaaa 360
 gcaatcaaga gcttgaggta gtaccacttt gctgagtcga ataacgcacc gcaaggacat 420
 ggtagtgga cacttctgtc caataagctc ttcctcatct gtcagttttt cagcacgact 480
 atctactcac tcaagttgca tccacggatg taaggggtga tcatacttga tatacttggg 540
 ccaatatggg cgggtacttg tcattgctag c 571

<210> 13395

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-C4

<400> 13395

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 cccctttttt gggccctttt tttttgtaac caaaaagggg gccccccac cgggggggtg 120
 ttccctcccc aggcggggtt tcttaaaaaa aaccgggtt tttggcacca tttttttttt 180
 ttttgggaag gccccccca aggggttccc ccteccaag ggataaaaaa ctttttggcc 240
 tttttggggg cccccccaa atttcccat attttgttg ttaaaggga cccctttttt 300

caagtagcca acagggtttc cccccctttg ctgatttaaa gctggcccaa tttgttgcaa 360
 caatttttgt tgcagggtttt tagggccttt ggccccaggg aggggggttta ataaaaacct 420
 tttttttttt tt 432

<210> 13396
 <211> 425
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-096-Q1-N6-C5
 <400> 13396

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 ctccagggcg gggtttttaa aaaaaaactg gttttttggc accatttttt ttttttttc 180
 caggaaggtc ccccccaagg gttcccccc tccaagggt taaaaaacct tttgccctt 240
 ttggggggccc ccccaaatt ttgcccccc cctttggtta aatggaacca cttttttta 300
 gtaggccccca gggtttcccc cactttgctg agtcaaagct ggccaattt gttgcaccac 360
 cttttgttgt aggtccctag gggctttccc cccccggagg gggctaaata aaaatttttt 420
 taggt 425

<210> 13397
 <211> 598
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-096-Q1-N6-C6
 <400> 13397

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 tttttttaaa aaataaattt tttttttaag aaaaaaaaaa aaaagagttt tattatgggg 120
 ggggcggtaa agnnaataga gagggggcca caacaagggg cgcggtggga agagatctcc 180
 gcctcttttg gggggggggtt aaaaaaaaaa aatttttttg ggccccctcc cccaaaaaaa 240
 aaaaaagggg gggggccccc aaaagggggg gagggaaaaa aattgttggg ggttaaaaaa 300

aaaaattggg ggggggagaa aaatTTTTtg tttggaaagg gggggcccgg tggggggccc 360
 ccggggggga aaaaaaaaaa aaatgggggg gtagaaaaaa gggggggggg gaaaaaccca 420
 ccccgggggg gggagggggg gggTTTTctt cttttaaaaa aaaggagaga ccgccccccc 480
 cctggggggg gaaaagaaaa aaaagggggg gggggggaaa aaaaaaaccc caaaaaaaaa 540
 ggggggtgnt cccaaaaaaa aaaaaacctg gtgaaccaa tgtggggggg ccccgggg 598

<210> 13398
 <211> 490
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-C7

<400> 13398

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 gcaaaacaaa taagccacgg ttacatcgaa tgcgccgcac acaaattagg aactctgccc 120
 ctcacgaaaa tttgcaaaat tttacctcg catctgcgat aggttttgac tatttatcta 180
 taccagtact agtactacat agctcaatgt gctcctacat ctgtttggaa cctcgagcaa 240
 caacaaatac gagtgtctga caccaacaac gtaaagaatt cctatttgct tggctttcat 300
 gacacgagct gaactttctt gccgtccaca ttgaatttcc tgcttccttg aagctttttc 360
 ttcaaaaaca acagggttc gcgtctacca gagaagctgg aaaatacaac atttgagtgt 420
 tcctcaacgg cgaccttaag atccttcaat ttcattgact gagatggggc ctgaccaaatt 480
 attcttttgc 490

<210> 13399
 <211> 526
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-C8

<400> 13399

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 ttgctgccac gacaaggcag ggttcacaa agagaactgg ttgtatggca gcaattgttg 180

ctgctgtagg aaggcagcga ccaatgggtt agccaccgct agtggattaa gtaactgttg 240
 tcgctgttgt aggtacgcag cagagttcga cacagtcagt tggttgaatg gaagtagttg 300
 ttgcaagtag gcagcagggt ttgccacagc tagctgagta agagctggta caatttggtg 360
 cagcaactgt tgttgcaaca actggttggtg caggtatgta ggtgcattgc ccatagcgag 420
 cgggctagat gaaagaagtt gttgctgttg taggtaggcg atagggttca ccatggctag 480
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<210> 13400

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-D1

<400> 13400

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 gccgctgggt ctgtcaaagc aagttggaca aagggaaca attggttagt ttgtaagagg 180
 gttgcgggggt tagccgcaaa ctgctggtag aaaggcagca actggtgctg tgtcaagaag 240
 gaagcacggt ttgctgcagc tagctggcta aatggtagta gtatttgctg ctgcaaataa 300
 gcagcgggggt tcagtgcggc caattggta aatggaagaa gttgttggtg ctgagagtag 360
 gcagtagcta gctggctaaa tggtaatagt tgttgctgca aataagcagc aaggttcaat 420
 gtaaacaggt ggttgaatgg aaaaa 445

<210> 13401

<211> 603

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-D10

<400> 13401

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 tgcacagaa acctcatgta actaggatgt acaggcgtga ccatgtgaag ttgaatgctt 120
 ctattactgt attatcaaaa tgggtggatac gacgcaactg ctaagcagca acacaagcca 180

cccggatctt acattatgga actttttcaaa gttatagaat ctacaaaatc tggacatgat 240
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 aagactcctg ttctccatgt cagtctgttt ttgccgaaat atttcaaatt ccgatctgag 360
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 gaatccatca acttcattca taatgctatc tttgctgctc tcaagattct tcagctctga 480
 ttggatcttc tctaacaaga catctttgct atcaatatcg gcacgaaat ccttaaatat 540
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 aag 603

<210> 13402
 <211> 577
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-096-Q1-N6-D11
 <400> 13402

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 gtaggaggcc gctgggtctg tcaaagcaag ttggacaaag ggcaacaatt gttgtagttg 180
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 gttcagtgtg gacagttggg tgaatggaag aaattgttgt tgctgagagt agggagaaaag 480
 gtttgccaga gctacttggg tgatcagagg tagcacgagt tgctgcagct gttgtgccct 540
 gatggtttgt accaatgact gcaccaaaga tagggct 577

<210> 13403
 <211> 577
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-096-Q1-N6-D2

<400> 13403

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taggaggccg ctgggtctgt caaagcaagt tggacaaagg gcaacaattg ttgtagtgtg 180
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ttcagtgtag acagttggtt gaatggaaga aattgttggt gctgagagta gggagaaagg 480
tttgccagag ctacttggtt gatcagaggt agcacgagtt gctgcagctg ttgtgccttg 540
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<210> 13404

<211> 132

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-D3

<400> 13404

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caccaatgat gtgttggttg taggaggccg ctcgggtctgt caaagcaagt tggacaaagg 120
gcaacaattg tt 132

<210> 13405

<211> 566

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-D6

<400> 13405

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caacaacaca acgaggaaga caacaatgac aagggccatt tacaatctca ctcaggccac 180

cacgcattcc caaagactgc agcaatcgca cagcctgaat ataaccctat aagtctataa 240
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ttcacagcct tgcataaac agttgggttt cggatctcgt cctggctttg gatcaacctg 480
atctctaagc tgctggtcga tgggtcgaag cgggccattt tatagtcttc cacagttctt 540
ttcagaagtg cctgcaaaact ggaaac 566

<210> 13406

<211> 507

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-D7

<400> 13406

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tcgaaaaaca aaacaagttg gcagcccgtt ttttggggtt gaaattacag gctttaccag 180
gtaaacaagc aagctgttgg gccatccatg cccatttttt aaaacttgga aataaaatcc 240
taaatttgct ggttgacctt gtgggccttt ttctttttga caaaatggcc cgccccgggg 300
attaccacca cttttttaag ccccgggacg ttggccttaa acccccctt ggggatttaa 360
ccctggatcc cccggtagtg gtaggtgagg tccccctccc ccacaataaa cctggggggc 420
ccccccacct ttgggtcccc ccacggggcc cccagtttcc aattggggtc catttttcgg 480
taataattta tgggccccct gaaacct 507

<210> 13407

<211> 605

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-D8

<400> 13407

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cttgcccatg tcagtctcat cgtcccatgg cttcacatca agtaaaactg atgacttccc 480
agattctttc ttcttgccag aagccttggc agctgcagca cgctcttcag cagccttctt 540
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tgggg 605

<210> 13408
<211> 508
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-096-Q1-N6-D9
<400> 13408

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accaattgtt gttgttgtaa gaaggcaaca atgtttgcc aattttgttg gtagaatggc 180
aacaattgtt gcttttgcaa gaaggcatta atgtttccca caacctgggg gtaaaatggc 240
aacaattgtt gttgtcccaa gaaaaaaca atgttttcca caccttgcaa atggaatggc 300
aaaagctttt gttgcaataa aaaggcatta gggctcccca caagttgggt aaatggtaat 360
agttgttggg cctgcaagta aacagcaggg ttcaccccaa cttgttgatt gaatggaaaa 420
aattgttgtt gctggaaata aacaacaagg ttccctgcaa ctacttgatt gattgttggg 480
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<210> 13409
<211> 197
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-E10

<400> 13409

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atatggtagc aaaaaatagc aatacgattg ccattgcac ttgagaagca ccaccacact 120
ctggtaccgc cacggctcag ggggacttgc ttccagtgc ggagccactg gggtcagaac 180
tatcagtatt cacatga 197

<210> 13410

<211> 160

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-E11

<400> 13410

acttatcata tcacatgatt ctgaagccac ccagtacatt attagtctac tattccagaa 60
gatttgcacc ttgcatacca acgcatgtat atcaacaaaa tgcagccttg tttcgaactc 120
tatgacagtt cgcggaagcg ctttgcggca gcaacaacag 160

<210> 13411

<211> 538

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-E2

<400> 13411

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aactttatta ttgaattacc aactaataat caatctaaaa gagggcacca ccaatgatgt 120
gttggttgta ggaggctgct gggtttgc aagcaagttg gacaaagggc aacaattggt 180
gtagttgtaa gagggttgcy gggttagccc caaactgctt gtagaaaggc agcaactggt 240
gctgtgtcaa gaaggaagca cgacttgctg cagctagctc gctaaatggc agtagtattt 300
gctgctgcaa ataagcagcg gggttcagtg cggccaattg gttaaatgga agaagttggt 360
gttgctgaga gtaggcagta gctagctggc taaatggtaa tagttgttgc tgcaataaag 420
cagcagggtt cagtgtagac agttggttga atggaagaaa ttgttgttgc tgagagtagg 480

gagaaagggtt tgccagagct acttggttga tcacaggtag cacgagttgc tgcagctg 538

<210> 13412

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-E3

<400> 13412

ccaaaggggg ggggcctttt ggggggaccc cccttttttg ggttttcggg gggggggccc 60
cccttttttt tttgggcacc ccccttttgg gttttggggg ggggggggtt ttttgggggg 120
gggggggggc ccccccccc ccttgggggg gggttttggg cttttttaaa aattcccccc 180
cccttttggg gggtttggg ggacccccaa acccccagg gggggggggg gggccccccc 240
cggttttggg ggggccccct tttttaaaatt ttttggggaa atttttggg ctttaatttc 300
ccaaaaaat aacccccctt gggggggaaa ccggggggt tttttgggg ttttaaccgc 360
ggtgggggaa aggggttttc ccagggggc cccttgttct tttggaattt aagcacattt 420
ttttaatttg ggcccccggt tt 442

<210> 13413

<211> 578

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-E5

<400> 13413

acacttcttc ttattttggc caattgtatt cacaagggtat gacgtactg atgaaactgc 60
acaaagtcca ccgaattgac aggcgcctt ggtacatag cagtgagact ggaaaggtaa 120
caaatggaat acggatacgt agataaccac ggaaaccag caatgctaag gtattgtttg 180
gtcactgcat aaccgacgat gatggtcaca acgcctcgtg atgcctcgtg ccttaacagc 240
accgggatga tctctgggcc cggttgccac ccgccacgtc cacggtatct ggcacatata 300
gttcttcttc tggctcatte ttcagagcgt tcttcacgat aactggaag gcgtcttcca 360
cgttcgttcc gtccttagca gacgtctcaa agtacgggat gttccctttg gaagcacacc 420
atgcctttgc cttttttctca gataccacgc ggctgttgcc accatctaca tcaactttgt 480

tacccaatag aacaaaaggg aaattatcag gatctgatgg gctagcctga attagaaact 540
 cttctcgcca gttgttcagg ttgtcaaatg atttcata 578

<210> 13414
 <211> 274
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-E6

<400> 13414

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 gatgttcaac agctagcctt gcagttaaatt ttatttaaag gcattgggtcg acatttgggtg 180
 ctttaatttgc actgaccaac ttaaagaggc aggtagcttg cttgcttgac ggagggtttg 240
 ttttacggcc ttaaaaaagc ccggtgggga ccgc 274

<210> 13415
 <211> 590
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-E7

<400> 13415

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 aactttatta ttgaattaca actaataagc aatctaaaag agggcaccac caatgatgtg 120
 ttgttggttag gaggccgctc ggtctgtcaa agcaagttgg acaaagggca acaattgttg 180
 tagttgtaag agggttgcgg ggttagccgc aaactgctgg tagaaaggca gcaactgttg 240
 ctgtgtcaag aaggaagcac ggtttgctgc agctagctgg ctaaattgga gtagtatttg 300
 ctgctgcaaa taagcagcgg ggttcagtgc ggccaattgg ttaaattggaa gaagttgttg 360
 ttgctgagag taggcagtag ctagctggct gaatggtaat agttgttgct gcaaataagc 420
 agcagggttc agtgtagaca gttgggtgaa tggaagaaat tgttggtgct gagagtaggg 480
 agaaagggtt gccagagcta cttgggtgat cacaggtagc acgagttgct gcagctgctg 540
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<210> 13416

<211> 532

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-E8

<400> 13416

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aaaaggtttc ttcagttcac actattgtat gtctctgtaat cgattttact taaatgtttc 120
tacgatgaga acgtacccaa gttacacacc tcatgggctc atggcaaata gtaaaattaa 180
gacaaatgaa atttctgggt tacattgtca tctcaaggctc aggggttacg gatttcctct 240
tggatctatt ctctgtctgc ggattgtttg ccgtctacatg tttctctgat gtctcaactt 300
cattatcacc atccgggtct ttcaaacctt aattcaaatt taggtctgtt ccaccgccgt 360
ttttaccaga atctcgacca tctcatctg ttgctgaga ttcattcata ggtgtatcat 420
tgatatcagt ctttccattt gatggctcag tttcattcga agatggatct ccatcattag 480
ccttggttctc atcatcagat ttggtagatt cttgcctttg ctcttccatt aa 532

<210> 13417

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-F1

<400> 13417

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aaaccgggtt gtgggcgccc caatggtggg gggggtgta aaaagatcct ttttcatgt 120
cgcccacttt aatcaagaat ggtgtcttaa atttaacaaa gatgccgggt gccttgccat 180
aaataatgta aatttttgcg cttgctgacc caataccaga aaaccattt gaaaaaaca 240
aatctttaga acctttgggt tttgttttaa aaatgctttt tatgcttttt tggagcctat 300
acatagttcc tccatagtct tttatgattc ctgaaggatc caagacgagc ggtttttgta 360
cgttgtttgc cttagcaaac caggggacaa acctttttcc tacaggtggg aaaactaat 420
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<210> 13418

<211> 159

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-F10

<400> 13418

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tattgaagta taactcataa gcaatctaaa agagggcacc accaatgatg ggttggtggt 120

agaacgctgt tgggtttgtc aaagcaagtt ggttgaatg 159

<210> 13419

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-F11

<400> 13419

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gcaaaaggca cttaaagatg ctcttatgac acatgccaga agggaaacaa cagacttcac 120

aattacaagg gcggaagctt cataggatta ccataacaga tagctgacgg gcttcaaaaa 180

aagattgaac acaggggaac atcacacaga taaaaacata tcacccttgt actaacaggg 240

aggcgggggt tgctggattt taaatcaatt gcttgctgga ttttaaattc atacacagtc 300

ctgccattac catccaagat catattcttg aaagccccac cactagggat cataggcaac 360

acatgctcct ggtgtgggac gatta 385

<210> 13420

<211> 575

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-096-Q1-N6-F12

<400> 13420

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tattgcttaa caccgttata tgagtataac ggctaggtag acacaattct tcaattgcaa 120

acaccactaa tgtcattgct gctgcatgga ttatttttgggt agtatgagtgt gtacaagccg 180
cacattgatg gtaggtattg tgctgctgtc aagattgccca ccgcactttg agtagcttgt 240
tgagatccac ataactcaca tggttgttgt tgttgctcct cctggattat ggattgaacc 300
atgtttgtaga ttgcttgggtg aatgtattgt ggctcaatct gcctaagatc atgacaacat 360
tgttgctgca atacctggca gctacttgggt tgtatcaaac gtgattggag aaaaggcatt 420
accaaagggc tgcactgctg ccttaggaat tcatgacaat tttttagatt tgagctactg 480
ctatagtagt tatagctgca ccttgtagtc tgttgctgct cctggcaatg acattgggtgc 540
tgntgtgatt tttcctggcc ctgctgatat tgctg 575

<210> 13421
<211> 484
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-096-Q1-N6-F2
<400> 13421

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tttttttgag ggaccggggg ggggcccttt tttttggggg gggccccccc ccgtgggaaa 120
aaaatttttt tttggggact tcccccccg cggggggggc cccccgggaa ttcccgcccc 180
ggccctgggg ggccccccct tttccttttg gggggggggt taaagggggg gggaaaaagg 240
ggggaagggg gttccccggg ggaaaatttt cccccggaaa aaaccccccc aaaaaaagg 300
cggggaaaaa aaagggaaaa gggggggggg cccaaggggg gggccccccc ccctttgggg 360
ggggggcccc cccgccccct ttcccagggg ggaacccccg gccccccccg ttataaaaaa 420
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cccc 484

<210> 13422
<211> 463
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-096-Q1-N6-F5

<400> 13422

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gccgactcac tctttttttt ttaacctgg tagctagtagc tggtcgccgc cggagaagat 180
gctgcactcc tggggctccg acagccggca catcatcggc aaccccgcg cgtactcccg 240
ggccttcgta agcctcacgc ggccgatact tggcccgggtg gtgccgggac gacacggtgg 300
atacatctgc gtttggatc cctctcctgc ccggctgcag gggtagtagt agccccctg 360
tcctcctcct cctccctgcg gcggctgcgg cgatcttagc catctcttct cagcgccgga 420
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<210> 13423

<211> 592

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-F8

<400> 13423

atcgagataa atctcaatca atatattgat tatttctagg aaacacatgt cggatatgagg 60
gcaccattgt cgagtacatc tcatatgtaa tctaaaagat ggcacctcca acgatgggtt 120
gctgcaaggc agggttcatc aaagagaact ggttgtagtg cagcaattgt tgttgctgct 180
gcaggaaggc agcgaccaat gggttagcca ctgccaatgg attaagtaac tgttgctgct 240
gttgtaggta cgcagcagag tttgacacag ccagttgggt gaatggaagc aactgttgta 300
agtaggcagc agggtttgcc acagctagct gagtcagagc tgggtacaatt tgttgtagca 360
actgttggtg taggtacgta ggtgcattgc ccaccgcgag cgggctagat gaaagtagtt 420
gtaggtagac ggcaggggtc accatggcta gttgactgag cactggcata aactgttgca 480
gctgttggtg ttgctggtat gcagctacgt tcgccagagc aagtgggttg gatgcaagca 540
gctgctgttg caagtaggtg acaggggtca ccacggctag gtggctcagt ga 592

<210> 13424

<211> 602

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-F9

<400> 13424

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aaattttatta ttacagtata aagcataaaa aatctagaag atggtaccac caatgggtggg 120
ctgatgcaat aagggtggtag gattcgtcaa agcgagttgg ctaaattggca gcaattgctg 180
ttgttgtaag aaggcgacaa tgtttgccac atcctgtggg tagaatggca gcaattgttg 240
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ctgcaagtaa gcagcaggt tcaccccagc tagttgattg aatggaagaa attgttggtg 480
ctgaaggtaa gcagcaaggt tcgctgcaac tacttgatta attgttgga gcaaccgttg 540
ttgtagttgt tgtgctgtga ttctttggag atacagattc actaagggat ggttgtgcaa 600
ta 602

<210> 13425

<211> 472

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-G1

<400> 13425

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ccaaaaaaaa aaaagggggg ggggccaccc ctcccccaa aaaaaaaaaa aaaaggggct 120
tttttggttt gggccttttt ttttgggtta aaaaaaaaaa aaaacctggg ggttaaaatt 180
aaaaaaaaatt ttaaaaaccc tcccccttg ggggcctttt tttatccaaa aaaatttggg 240
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ttttttaaaa gggccccaag gtcccccccc cgcggttttt ttgggttgcc ccccataaaa 360
ccccgggggg gggttttttt ttttttgga accccccct aaaaacacca tggggccttt 420
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<210> 13426

<211> 597
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-G12

<400> 13426

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ctgcatttta cttgacatta taaaacgaat atgtcatttg cgactacatc cccatcatgc 180
atgcttcgaa ccacttgcta gtatcatcaa gacagaagcc atatggacca tgcattgatgt 240
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ctcagctgcc acgtcctcac tgacatcacc ttgcaaaata gaaggaatat cttcactttc 360
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tgttgcatta gtcaaagtag gaacaatcac gccatcattt cttcctatca tccttgaagg 480
accatcaaaa gtaggttgaa tgaaaattgg catgccagct tgtggtaaga aagagcatcc 540
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<210> 13427
<211> 537
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-G4

<400> 13427

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gcagaggacg tatccatgtc attcagacca agttcctcgt tctgctccca actcctctga 180
tactcttcaa tggttagttg gctgtcatct tctaacgaat cagtagccgg ggccacaaat 240
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gttgtgacca taccacccaa cgttccacat gaaagttcca actcaagttc aggtactttt 480

acgctagctg aatctgactt tatgacatca cgagtaaggg cttgtgcatt ttgaaca 537

<210> 13428

<211> 602

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-G5

<400> 13428

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aatgatgggt tgttggtaga aactgctgg gtttgtcaaa gcaagttggt tgaatggcag 120
caattgttgc agttgtaaga ggtgccagc gttaggcgca acgtgctggt agaacggcaa 180
caactgtggt tgtgtcaaga aggtagcagg gctcacacca gctagctggc tgaatggtag 240
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taaatgcacc aaaggtaact gttgtaatag ggctgatgat tgttgaggga acaaggggtga 540
taaaggtaag atgccagctg cgattgcctg ttggatcctg tagggttgaa gaattggggt 600
tt 602

<210> 13429

<211> 534

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-G6

<400> 13429

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aagttggaca aagggcaaca attgttgtag ttgtaagagg gttgcggggt tagccgcaaa 180
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caattggtta aatggaagaa gttgttgttg ctgagagtag gcagtagcta gctggctaaa 360
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 aagaaattgt tgttgctgag agtagggaga aagggttgcc agagctactt ggttgatcag 480
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<210> 13430

<211> 511

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-G7

<400> 13430

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 actgctgggt ttgtcaaagc aagttggttg aatggcagca attgttgcag ttgtaagagg 180
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<210> 13431

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-G8

<400> 13431

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 agaacgctgt tgggtttgtc aaagcaagtt ggttgaatgg cagcaattgt tgcagttgta 180
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agaaggcaac agggctcaca tcagctagct ggctgaatgg tggtagctgt tgctgttgta 300
aataagcagc agagttcaat gctgccagtt ggttgaatgg aagaaattgc tgggggtagg 360
cagcagctag ctgactgaat ggtagttggt gttgcaaata agcagcagag ttcaatgcag 420
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<210> 13432

<211> 580

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-096-Q1-N6-G9

<400> 13432

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tttttttttt tttttttttt tttttttttg ggggtgtttt tgnntttttt tttttttttt 180
ttttttttaa aaaaaggggc cttttttttt gggggggggc cccaccctc aaaaaaaaaat 240
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gggggaaaaa acctgtgggt ttttaaaaaa aggggggggg ggggggggaca tatttttcct 360
tttaaaaagg gggggccccct ggggggcccc ctgggtttaa aaaacaaaaa atttgggggg 420
tttaaaaaag gggggggggg cccccccca acttgggggg agagggggaa aaatgtgtcg 480
ttcaaaaaaa aggggggggt ttcaaccctt tttggggggg aaaagaaaaa aaatgggggg 540
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<210> 13433

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-H1

<400> 13433

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gcagggttca tcaaagagaa ctggttgtat ggcagcaatt gttgctgctg taggaaggca 180

acgaccaatg ggtagccac cgctagtga ttaagtaact gttgtcgctg ttgtaggtac 240
gcagcaaagt tcgacacagt cagttgggtg aatggaagca gctgttgcaa gtaggcagca 300
gggtttgcc aagctagctg agtcagagct ggtacaatct gttgcagcaa ctgttggtgc 360
aggtatgtag gtgcattaac cacagcgaga gggctagatg aaatcagttg ttgctgttgt 420
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<210> 13434

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-H10

<400> 13434

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gctgctgggt ttgtcaaagc aagttggaca aagggcagca actgttgtag ttgtaagagg 180
gttgcggggt tagccacaaa ctgctggtag aacggaagca attgttggtg tttcaaaaag 240
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gcagaggggt tcagtgcggc caattgggta aatgg 335

<210> 13435

<211> 602

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-H11

<400> 13435

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actcaaaatt ttggcttggg ggtgtaccat gaaagagagg gtcacctttt gtacaggcca 180
ttccatggct atgttattct ctctttttt tttccaaacg acacaaactg aatccacagt 240
gatgctaacc aaactctata gtttaccgta tatatcatat ctggaccaa gtttagacaga 300
ataacagaga gctacttatg atcacatcat cccactgtcc accctcgttc tgcaatcact 360

tcacgaacac gagtagctac ttcaatggcg tcatttaggg gagggtagct ccagctattt 420
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aaagccgaaa acttccatth acagtgttcg gtcccaataa cataaacagg tttccctgtg 540
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gc 602

<210> 13436

<211> 475

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-H3

<400> 13436

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gtgccagcgt taggcatagc gtgcaggtag aacggcaaca actgttggtg tgtcaagaag 240
gcagcagggc tcacatcagc tagctggctg aatggtagta gttgttgctg ctgtaaataa 300
gcagcagagt tcaatgctgc tagttggttg aatggaagaa attgctgggg gtaggcagca 360
actagctggc tgaatggtaa ttgttggtgc aaataagcag cagagttcaa tgcagccagt 420
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<210> 13437

<211> 500

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-H5

<400> 13437

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taagccaatt atattctgtg aatcaggcag ctcatctgat atatctatct aacttagtct 180
ggcacggcct gtgtggagtt tgaatacaac agtgaataat gatggcacia attgatcgct 240

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taagtagtct cgatcatttt ctccacctcc attgtaaatc cataatggta agcaaccttt 420
ttcacatctt ccaaacttaa ttcaatagac atatcatcat ctggcccata tgaatcagca 480
aagtgataca gaaggggacc 500

<210> 13438

<211> 611

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-H6

<400> 13438

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tgccacgaca aggcagggtt catcaaagag aactggctgt atggtagcaa ttgttgctgc 180
tgttaggaagg cagtgaccaa tgggttaggc actgctagtg gattaagtaa ctgttgctgc 240
tgttgttaggt acgcagcaga gttcgacaca gtcagttggt tgaatggaag cagctgttgc 300
aagtaggcag cagggtttgc cacagctagc tgagtcagag ctggtacaat ctgttgcagc 360
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tgttgctggt gtaggtaggc ggcagggttc accatggcta gttgactgag cgctggcaga 480
aactgttgca attgttggtt ttgttggtat gcagctacgt ttgccagagc aagtgggttg 540
gatgcaagca cctgctgttg caagtaggcg acagggttca ccacatctag ttggctcagt 600
gctggttagga a 611

<210> 13439

<211> 569

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-H7

<400> 13439

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caccctgtgt tctcgaggac gggatcatgag acttccctgt tatttgggta gtctagtatt 120
gaccccaatc caccaatcca catatgttga ggtagattgg agtgtaaatt agtttaagtt 180
acaccctaata catctcaata cacatggatt aagctcaata gtagagtacc caaactagtc 240
cttaggcaat gacgaaccta acatcagata caacaatgaa gatctgctac aaccgctaca 300
atagagtttc tgggtagcag ccgatgatca caacgcgtac ccgctccgag catgcgtaca 360
ccagtataaa ctctgaaca gattctcagg ctctagccat tttttagctc ggagagaaaag 420
ctttgtgcca aggagaagca ggactccctt tgtttcttgt actcaccata ccgcaagaag 480
aagtatccaa gatagtcaaa gtcaattggg gatacctttg cctgaataag ggcccataat 540
gcccagtaaa tgtgcgatgc tagtctgaa 569

<210> 13440

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-H8

<400> 13440

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ttttcaacct caaaacaaat tccgctttaa aagttacact tcaattagcc cgccccttgc 120
ccttgcagtt ccccttcccg cccaacaggg aagggttttt tttttttttt tcaaaggagc 180
agaaaccctt taaaccccc cacaacaggg gcaaacttga caattcggga aaattcaaac 240
ccttaccaaa aaaaattttt cgggtccaaa tttttcggaa gattttttga aaaaaacaaa 300
cactttttta aaaaaaaatt ttaaaacact ttttttccc caatttttta attttcaaag 360
ggtttgggga aaaattcccc cactttttta acttttgttg ggttcccccc aaaatttt 418

<210> 13441

<211> 555

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-096-Q1-N6-H9

<400> 13441

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accattatcg agtacatctc atatgtaatc taaaagatgg cacctccaac gatgggttgc 120
 tgcctcgaca agacaggggtt tatcaaagag aactgggtgt atggcagcaa ttgttgctgc 180
 tgtaggaagg cagcgaccaa tgggttagcc actgctagtg gattaagtaa ctgttgctgc 240
 tgttgtaggt acccagcaga gtccgacata gtcagttggt tgaatggaag cagctgttgc 300
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 aattgttgtt gcaggtatgt aggtgcattg gccacagcga gcgggctaaa tgaaagcagt 420
 tgttgctgtt gtaggtaggc ggcaggggtc accatggcta gttgactgag cgctggcaga 480
 aactgttgca gctgttgttg tggttggttt gcaactacct ttgccagagc aagtgggttt 540
 gatgcaagca actgc 555

<210> 13442
 <211> 644
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-093-Q1-K6-A12
 <400> 13442

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 acaattttcc ctcaatgctc acaagctcct atagcttccc ttcttcccc ataccttcca 180
 tcaatgatag cttcagtatg tgaaaacca gctcttcagc cctataggct ccaacaagca 240
 atgcgagcaa gcaacatacc tttatcacc ttgttgtttc aacaatcgcc agccctatct 300
 ttggtgcagt cattggtaca aaccatcagg gcacagcagc tgcagcaact cgtgctacct 360
 gtgatcaacc aagtagctct ggcaaacctt tctccctact ctcagcaaca acaatttctt 420
 ccattcaacc aactgtctac actgaacct gctgcttatt tgcagcaaca actattacca 480
 ttcagccagc tagctactgc ctactctcag caacaacaac ttcttccatt taaccaattg 540
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<210> 13443
 <211> 622

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-093-Q1-K6-A3

<400> 13443

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atactcacia gctcctatag ctgcccttct tccccatac cttccatcaa tgaccggggg 180
gggtgtgaaa acccagccct tcaaccctac aggatccage aagcaatcgc aacaagcaac 240
ttacctttat cacacctgtt ctttcaacia tgcgcagccc tatctttggg gcagtcattg 300
gtacaaacca tcagggcaga acagttgcag caactcgtgc taccagtgat cagccaagta 360
gctctggcaa acctttcccc ctactctcag caacaacaat ttcttccatt caaccaactg 420
tctatactga accctgctgc ttatttgcag caacaacaac tactaccatt cagccagcta 480
gctactgcct actctcagca gcaacaattt cttccattta accaattggc cgcactgaac 540
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cccgttccct tcttgacaca ac 622
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<210> 13444
 <211> 597
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-093-Q1-K6-A4

<400> 13444

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cgccgccagg aggcctctc cgcgtcctgc gcgccacggc tccgaccaac ccaccaggtc 180
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ctttcctgga gggaaagtat cctttgtggc agaaatgaac ttccttccag aatcgacgag 420
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ggaaaggatc aactgctacc gcgtgcttga cgacgacggc agaacgatat caggaagtag 480
 attccaagag gtcagtcggg agctggctct gaagatgtac agcgagatgg tgacgctcca 540
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<210> 13445
 <211> 621
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-093-Q1-K6-A5

<400> 13445

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 ttttccctca atgctcacia gctcctatag ctcccttct tccccatac cttccatcaa 180
 ttatagcttc agtatgtgaa aaccagctc ttcaaccata taggcttcaa caagcaatcg 240
 cagcaagcaa cataccttta tcgcccttgt tgtttcaaca atcaccagcc ctatctttgg 300
 tgcagtcatt ggtacaaacc atcagggcac aacagctgca gcaactcgtg ctacctgtga 360
 tcaaccaagt agctctggca aacctttct cctactctca gcaacaacaa tttcttccat 420
 tcaaccaact gtctacactg aacctgctg cttatttgca gcaacaacta ttaccattta 480
 gccagctagc tactgcctac tctcagcaac aacaacttct tccatttaac caattggccg 540
 cactgaaccc cgctgcttat ttgcagcagc aaatactact gccatttagc gagctagctg 600
 cagcaagtcg tgettccttc t 621

<210> 13446
 <211> 508
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-093-Q1-K6-A6

<400> 13446

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 aatgttaaga tactcaatgc tgacaatgtt caagaagctg caatggagac agacgggtac 120

ttcatcaaag gtggaattgt cacagtgate aaggatgctt tactccctag tggaacagtt 180
 atatgaagtg aacgtgcgac atgcagctgt gtgtctcgac attcgacaat gatcagcacc 240
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 tgtttagca gcaaattgta gttacatgtt gaatcgacat tgggggctg gatttgggga 420
 tacatcatgc tgtaaattga tcagtttaat taccatactg tgctgctttg agcgaagcca 480
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<210> 13447

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-093-Q1-K6-A7

<400> 13447

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 cagcagtttg cggctaacct cgcaaccctc ttacaactac aacaattggt gccctttgtc 180
 caacttgctt tgacaaacct agcagcctcc taccaacaac acatcattgg tgggtgcctc 240
 ttttagattg cttattagtt gtaattcaat aataaagttt tttggatgat gtatgtggcc 300
 aaccagaaat aagaagttac atttcagat tct 333

<210> 13448

<211> 462

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-093-Q1-K6-A8

<400> 13448

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 cccttcttcc cccgtacctc tcaccagcgg tgtcttcggt atgtgaaaac ccaattcttc 180
 aaccctacag gatccaacag gcaatcgag ctggcatctt acctttatca cccttggtcc 240

tccaacaatc atcagcccta ttacaacagt tacctttggt gcatttattg gcacaaaaca 300
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 agcagtttct tccattcaac caactaggtt cattgaactc tgcttcttat ttgcaacaac 420
 aacaactacc attcagccag ctaacctgct gcccttacct cc 462

<210> 13449
 <211> 628
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 13449

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<210> 13450
 <211> 653
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-093-Q1-K6-B1

<400> 13450

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attccacaat gctcacttgc tectagtgcc attattccac agttcctccc accagttact 180
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ctcgctgtgg gcaatgcacc tacatacctg caacaacaat tggtgcaaca gattgtacca 600
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<210> 13451

<211> 640

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-093-Q1-K6-B10

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tgccgttcta ccagcacgct gcgcctaacg ctggcaccct 640

<210> 13452
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-093-Q1-K6-B11

<400> 13452

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ccaatccatc accatgggct tgcagtgctg catgtctccg atcattgcgt agtttgccgg 180
gaggggagcg atcaattgta ctcaaatttt ggccctggcta ttgcatcact tgatatctgc 240
ctatggtcag cccatgcacc cgatactgag tgcccttcta ctagcccatg ctcacgctct 300
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<210> 13453
<211> 637
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-093-Q1-K6-B3

<400> 13453

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ttacctttat cacccttggt cctccaacaa tcatcagccc tattacatca gttacctttg 300
gtgcatttat tggcacaaaa catcagggca caacaactac aacaacttgt gctagcaaac 360
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cagcaatttc ttccattcaa ccaactggca gcattgaact ctctgctta ttacagcag 540
caacaactac taccattcag ccagctagct ggtgtgagcc ctgctacctt cttgatacaa 600
ccacagttgt tgccgttcta ccagcacgct gcgcta 637

<210> 13454
 <211> 639
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-093-Q1-K6-B4

 <400> 13454

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acaatgctca caagctccta tagcttcctt tttccccca tacctctcac cagcgggtgc 180
ttcaatgtgt gaaaccccaa ttgttcaacc ctacaggatc caacaggcaa tcgcaacagg 240
catcttacca ttatcacctt tggtcctcca acaaccgtca gccctattac agcagttacc 300
tttggtccat ttggtggcac aaaacatcag ggcacaacaa ctacaacaac ttgtgctagc 360
aaaccttgct gcatactctc agcaacatca gtttcttcca ttcaaccaac tggctgcatt 420
gaactctgct gcttatttgc aacaacaatt accattcagc cagctagttg ctgcctaccc 480
ccagcaattt cttccattca accaactagc agcattgaac tctgctgctt atttacagca 540
gcaacaacta ctaccattca gccagctagc tgatgtgagc cctgctgcct tcttgacaca 600
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<210> 13455
 <211> 643
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-093-Q1-K6-B5

 <400> 13455

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tcctcaatac tcacaagctc ctatagctgc ctttcttccc ccataccttc catcaatgac 180
cgcttcagtt tgtgaaaacc cagcccttca acctacagg ctccaacaag caatcgcaac 240
aagcaactta cctttatcac cctgttctt tcaacaatcg ccagccctat ctttggtgca 300
  
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gtcattggta caaaccatca gggcacaaca gctgcaacaa ctctgtgtac cagtgatcag 360
ccaagtagct ctggcaaacc tttctcccta ctctcagcaa caacaatttc ttccattcaa 420
ccaactgtct aactgaacc ctgctgttta ttacaacaa caacaactac taccattcag 480
ccagctagct actgcctact ctgagcagca acaatttctt ccatttaacc aattggccgc 540
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<210> 13456

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-093-Q1-K6-B7

<400> 13456

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cagaccgagc ggctcctac caacaacaca tcattgggtg tgccctcttt tagattgctt 120
attagttgta attcaataat aaagtttttt ggatgatgta tgtggccaac cagaaataag 180
aagttacatt tccagatttt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
aaaaaaaaaa ggggaaaaaa aaaaaaaaaa aatttaaaaa aaaattaaaa aaaagtggat 360
aaatggtaaa cttttgggaa taaaaaaaaa aaataaattg gaaggtaat 409

<210> 13457

<211> 536

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-093-Q1-K6-B9

<400> 13457

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atgcctacc tacaacagca acaacttctt tcctctagcc cgctcgctat gggcaatgca 120
cctacatacc tgcaacaaca gttgttgcaa caacagttgc tgcaacaaat tgtaccagct 180

cttactcagc tagctgtggc aaaccctgct gcctacttgc aacaactact tccattcaac 240
 caactgactg tgtcgaactc tgctgcgtac ctacaacagc gacaacagtt acttaatcca 300
 cttagcggtag ctaaccatt ggtagctgcc ttctacagc agcaacaatt gctgccatac 360
 aaccagttct ctttgatgaa cctgaccttg tcgtggcagc aaccatcgt tgggtggcgcc 420
 atcttttaga ttacatatga gatgtactcg ataattggcg cctcatagcg gcatgtgttt 480
 cctaaaaata atcaatatat tgattgagat ttnnnannna naannnnnnn nnnana 536

<210> 13458

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-093-Q1-K6-C1

<400> 13458

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 gcagcgttct accaacaacc catcattggt ggtgccctct ttagatttc ttatgagtta 180
 tagttcaata ataaagtttt ttgtctgaaa aaaataaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaaaaaaa ataaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
 aagcaaaata aactcaacaa aaaaaaaagg ggcgcccttt ttaaggatcc 350

<210> 13459

<211> 618

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-093-Q1-K6-C11

<400> 13459

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 taccattgat cgtgggatag cattacataa gatgattaga cttatcacia tgggttttagg 180
 aggagagggc tatcttaatt tcatgggaaa tgagtttggc catcctgaat ggatagattt 240
 tccaagaggt ccgcaaagac ttccaagtgg taagtttatt ccagggaata acaacagtta 300

tgacaaatgt cgtcgaagat ttgacctggg tgatgcagac tatcttaggt atcatgggtat 360
gcaagagttt gatcaggcaa tgcaacatct tgagcaaaaa tatgaattca tgacatctga 420
tcaccagtat atttcccga aacatgagga ggataagggtg attgtgttcg aaaagggaga 480
tttggtattt gtgttcaact tccactgcaa caacagctat tttgactacc gtattgggtg 540
tcgaaagcct gnggtgtata aggtggtctt ggactccgac gctggactat ttggtggatt 600
tagcaggatc catcacgc 618

<210> 13460
<211> 640
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-093-Q1-K6-C12
<400> 13460

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ttcttttctt ccccatacc tctcaccagc ggtgtcttca gtatgtgaaa acccaattct 180
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cctccaacaa ccgtcagccc tattacagca gttacctttg gtgcatttgt tggcacaaaa 300
catcaaggca caacaactac aacaacttgt gctaggaaac cttgctgctt actctcagca 360
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acaactacca ttcagtcagc tagctgctgc ctacccccag caatttcttc cattcaacca 480
actggcagca ttgaactctg ctgcttattt acaacagcaa cagctaccac cattcagcca 540
gctagctgat gtgagccctg ttgccttctt gacacaacaa cagttgttgc cgttctacct 600
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<210> 13461
<211> 626
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-093-Q1-K6-C2

<400> 13461

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tagttggagg agatatgcag tttgcacttg cattggacac gaactcaggt cctcaccaga 120
taagatcttg tgaggggtgat gggattgaca ggttngnaaa aattaagtat tgggggcaga 180
aagcaggaga aagctttgag aaataggtgc tttgggtgga gagttgctgc aactacacaa 240
tgtattctta cctcagatgc ttgtcctgaa actcttcatt ctcaaacaca gtctcttagg 300
aaaaattatg ctgatgcaaa ccgtgtatct gctatcattt tgggcgagg cactggatct 360
cagctctttc ctctgacaag cacaagagct acgcctgctg tacctgttgg aggatgttac 420
aggcttattg atatccctat gagtaactgc ttcaacagtg gtataaataa gatatttgtg 480
atgagtcagt tcaattctac ttcgcttaac cgccatattc atcgtacata ccttgaaggc 540
gggatcaact ttgctgatgg atctgtacag gtattagcgg ctacacaaat gctgaagag 600
ccagctggat ggttccaggg tacagc 626

<210> 13462

<211> 635

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-093-Q1-K6-C3

<400> 13462

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ttacatctgt tgccggcccta gttagctatt tgtcttttgt gtactatctg aggcaagaga 180
tggtacagct aggacttggc gaacacttgc ctgtgttggc tgttcacatc aagggggaaa 240
tttgcacgag acacctcgga tattacaaca atggatagat tcaagttgat taaggaagtt 300
ggcgatggga ctttcgggag tgtatggcgt gctataaata aacagaatgg tgaagttggt 360
gctgttaaga aaatgaagaa aaagtattat tcttttgagg aatgtatggg tttgcgtgaa 420
gtaaagtctt tgccggcgcat gaatcatcct aacattgtga agctcaaaga gggtatccga 480
gaaaatgata tattatactt cataatggaa tacatggagt gtaatctcta ccaacttatg 540

aaggataagg tcaagccttt ctcggagtct gaagtccgca actggtgctt tcagatattt 600
 caagctcttg cttacatgca tcaagagggc tactt 635

<210> 13463
 <211> 467
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-093-Q1-K6-C4

<400> 13463

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 tcqtatagct tcctttcttc ccccatacct ctcaccagcg gtgtcttcag tatgtgaaaa 180
 cccaattctt caaccctaca ggatccaaca ggcaatcgca gcaggcatct tacctttatc 240
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 ggcacaaaac atcaaggcac aacaactaca acaacttggt ctaggaaacc ttgctgcta 360
 ctctcagcaa cagcagtttc ttccattcaa ccaactggct gcattgaact ctgctgctta 420
 tttgcaacaa caactaccat tcagtcagct agctgctgcc taccccc 467

<210> 13464
 <211> 636
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-093-Q1-K6-C5

<400> 13464

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 gaccattttc ccgcaatgct cgcaagctcc tatagcttcc cttcttcccc cgtacctctc 180
 accagcgggtg tcttcgggtat gtgaaaaccc aattcttcaa ccctacagga tccaacaggc 240
 aatcgagctt ggcattctac ctttatcacc cttgttctc caacaatcat cagccctatt 300
 acaacagtta cctttggtgc atttattggc aaaaaacatc agggcacaac aactacaaca 360

acttgtgcta gcaaaccttg ctgcctactc tcagcaacag cagttttcttc cattcaacca 420
 actaggttca ttgaactctg cttcttattt gcaacaacaa caactaccat tcagccagct 480
 acctgctgcc taccctccagc aattttcttc attcaaccaa ctagcagcat tgaactctcc 540
 tgcttattta cagcagcaac aactactacc attcagccag ctagctgggtg tgagccctgc 600
 taccttcttg acacaaccac agttgttgcc gttcta 636

<210> 13465
 <211> 601
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-093-Q1-K6-C7

<400> 13465

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 agtgttcttg gaatcattct gggaggtggt gctgggacta gattgtacct cttgacaaaag 180
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 tccctcaacc gtcacctctc aagagcctac gggagcaaca ttggagggtg caagaatgaa 360
 gggtttggtg aagtcttagc tgcacagcag agcccagata atccaaactg gtttcagggt 420
 actgcagatg ctgtaaggca gtacttgtgg ttgtttgagg agcataatgt gatggaattt 480
 ctaattcttg ctggcgatca cctgtaccgg atggactatg aaaagttcat tcaggcacac 540
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 g 601

<210> 13466
 <211> 622
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-093-Q1-K6-C8

<400> 13466

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ccgctcaagt gaagtccgga gtggggggctt gcgatctccg ctgcggggcgc ggaagatggc 120
 tgatccagag ttggaagcta tcaggcagag acggatgcga gaactacaac acggtgcggc 180
 aaatcagcaa aatgcggggc aagaaaaggc tcaggaagac gcgaaacagg aagctgagga 240
 acgccggcaa atgatgcttg ctcagatatt atcttctgaa gcaagagaaa ggctttcccg 300
 catagctttg gtcaaacctg acaaagcaag aggggtggag gatgttttgc tgagagctgc 360
 tcaaactggg ggaatatctg agaaggtgtc tgaagaaaga ctcatctccc ttctagagca 420
 aattaacagc cacacaagca agcaaacc aa agttaacgatt cagaggcgtc ggaatgtcct 480
 tgacgacgat gattagatgc aacctgcaag tctctgcttc gagtgacta ttggctgggtg 540
 ataaattaaa agtgggtaccg aactgtttag acaatgatct catgcgacta tcagcagcaa 600
 tgaaaacttg gtacttggtga ga 622

<210> 13467
 <211> 646
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-093-Q1-K6-C9

 <400> 13467

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 agcagagata tctccacaaa acatgagagg ggctcttggc tctgtgaacc agttatctgt 120
 aacccttggt atcatgtttg cctatttget cggcttggtt gttccttgga ggcttcttgc 180
 agtaatagga accttgccct gcatagtgtt gatacctggc cttttcttca ttccggaatc 240
 tccaagatgg ctggcaaaga tgaatatgat ggatgattgc gagacttctc tacaagttct 300
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 agcaaacaaa agggctacaa ttcgtttcca agagttgaac caaaagaaat accgaacgcc 420
 cctaattata ggaattggtc tacttgtgct gcaacagcta agtggataaa atggtatact 480
 attttatgca agtagcatct tcaaagctgc cggctctgaag gacagtgact tggacacctt 540
 tgcacttga gctattcagg ttcttgccac ttttgttaca accatgttct tggacagagc 600
 tgggcggcga atcctcctta ttatttcttc tgctgggatg actcta 646

<210> 13468
<211> 627
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-093-Q1-K6-D1

<400> 13468

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gccacctcca cgcatacaag cggcgggtgc ggctgccagc caccgcccgc ggttcattcta 120
ccgcgcgcgg tgcattctgcc acctccggtt cactgccac ctccggtgca tctcccaccg 180
ccggtccacc tgccgcgcgc ggtccacctg ccaccgcccgc tccatgtgcc gccgcggtt 240
catctgccgc cgccaccatg ccaactacct actcaaccgc cccggcctca gcctcatccc 300
cagccacacc catgcccgtg ccaacagccg catccaagcc cgtgccagct gcagggaacc 360
tgcggcggtt gcagcacccc gatcctgggc cagtgcgtcg agtttctgag gcatcagtgc 420
agcccgacgg cgacgcccta ctgctcgact cagtgccagt cgttgccgca gcagtgttgc 480
cagcagctca ggcaggtgga gccgcagcac cgggtaccagg cgatcttcgg cttggctctc 540
cagtccatcc tgcagcagca gccgcaaagc ggccaggtcg cggggctgtt ggccggcgag 600
atagcgcagc aactgaccgc gatgtgc 627

<210> 13469
<211> 659
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-093-Q1-K6-D10

<400> 13469

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tccgagtgcc attattccac agttcctccc tccagttact tcaatgggct tcgaacaccc 180
agctgtgcaa gcctataggc tacaacaagc gcttgccggc agcgtcttag aacaaccaat 240
tgcccaatta caacaacaat ccttggcaca tctaaccata caaaccatcg caacgcagca 300
gcaacaagca ctgagccacc tagccgtggt gaaccctatc gcctacttgc aacaacagct 360

gcttgcaccc aacccacttg ctttggcaaa cgtagctgca taccaacaac aacaacagtt 420
gcaacagttt ctaccagegc tcagtcaact agccatgggtg aaccctatcg cctacctaca 480
acagcaacaa cttctttcat ctagcccgct cgctatgggc aatgcaccta catacctgca 540
acaacagttg ttgcaacaac agttgctgca acaaattgta ccagctotta ctcagctagc 600
tgtggcaaac cctgctgcct acttgcaaca actacttcca ttcaaccaac tgactgtgt 659

<210> 13470
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-093-Q1-K6-D11

<400> 13470

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accacaattg ttgccgttct accagcacgc tgcgcctaac gctggcaccc tcttacaact 120
gcaacaattg ctgccattca accaacttgc tttgacaaac ccaacagcat tctaccaaca 180
acctatcatt ggtgggtgccc tcttttagat ttcttatgag ttatagttca ataataaagt 240
tttttgtctg atgtttgtgg cttcccagaa ataagaaagt acatttctag attctt 296

<210> 13471
<211> 650
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-093-Q1-K6-D12

<400> 13471

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tccatcctta tgctccttgc tctttctgca tgtgttgcta acgcgaccat ttttcctcaa 120
tactcacaag ctcttatagc tgcccttctt ccccatacc ttccatcaat gaccgcttca 180
gtttgtgaaa acccagccct tcaaccctac aggctccaac aagcaatcgc aacaagcaac 240
ttacctttat caccctgtt ctttcaacaa tcgccagccc tatcttttgt gcagtcattg 300
gtacaaacca tcagggcaca acagctgcaa caactcgtgc taccagtgat cagccaagta 360
gctctggcaa acctttctcc ctactctcag caacaacaat ttcttccatt caaccaactg 420

tctacactga accctgctgc ttatttacia caacaacaac tactaccatt cagccagcta 480
gctactgect actctcagca gcaacaattt cttccattta accaattggc cgcactgaac 540
ccctctgctt atttccagca gcaaatacta ctaccatttg gccagctage tacaacaagc 600
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<210> 13472

<211> 638

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-093-Q1-K6-D2

<400> 13472

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agctcctata gtttcccttc tttttccata cctctcacca gcggtgtctt caatgtgtga 180
aaacccaatt gttcaaccct acaggatcca acaggcaatc gcaacaggca tcttaccatt 240
atcacccttg ttctccaac aaccgtcagc cctattacag cagttacctt tgggtccattt 300
ggtggcacia aacatcaggg cacaacaact acaacaactt gtgctagcaa accttgctgc 360
atactctcag caacatcagt ttcttccatt caaccaactg gctgcattga actctgctgc 420
ttatttgcaa caacaattac cattcagcca gctagttgct gcctaccccc agcaatttct 480
tccattcaac caactagcag cattgaactc tgctgcttat ttacagcagc aacaactact 540
accattcagc cagctagctg atgtgagccc tgctgccttc ttgacacaac aacagttggt 600
gccgttctac ctgcacgcta tgcttaacgc tggcaccc 638

<210> 13473

<211> 644

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-093-Q1-K6-D3

<400> 13473

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gccaaaattt ttgctcctt atgctccttg gtctttctgc aagtgtgtgt acggcgacca 120
 ttttcccgca atgctcgcaa gctcctatag cttcccttct tccccgtac ctctcaccag 180
 cgggtgtcttc ggtatgtgaa aaccaattc ttcaacccta caggatccaa caggcaatca 240
 cagctggcat cttaccttta tcaccttgt tcctccaaca atcatcagcc ctattacatc 300
 agttaccttt ggtgcattta ttggcacaaa acatcagggc acaacaacta caacaacttg 360
 tgctagcaaa ccttgctgcc tactctcagc aacagcagtt tcttccattc aaccaactag 420
 ctgcattgaa ctctgcttct tatttgcaac aacaacaact accattcagc cagctacctg 480
 ctgcctaccc ccagcaattt cttccattca accaactggc agcattgaac tctctgctt 540
 atttacagca gcaacaacta ctaccattca gccagctagc tgggtgtgagc cctgctacct 600
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<210> 13474
 <211> 602
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-093-Q1-K6-D4

 <400> 13474

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 ctcgcaagct cctatagctt cccttcttcc ccgctacctc tcaccagcgg tgtcttcggt 180
 atgtgaaaac ccaattcttc aaccctacag gatccaacag gcaatcgcag ctggcatctt 240
 acctttatca cccttggttc tccaacaatc atcagcccta ttacaacagt tacctttggt 300
 gcattttattg gcacaaaaca tcagggcaca acaactacaa caacttgtgc tagcaaacct 360
 tgctgcctac tctcagcaac agcagtttct tcattcaac caactagggt cattgaactc 420
 tgcttcttat ttgcaacaac aacaactacc attcagccag ctacctgctg cctaccccca 480
 gcaatttctt ccattcaacc aactagcagc attgaactct cctgcttatt tacagcagca 540
 acaactacta ccattcagcc agctagctgg tgtgagccct gctaccttct tgacacaacc 600
 ac 602

<210> 13475
 <211> 642
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-093-Q1-K6-D6

 <400> 13475

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cgcaagctcc tatagcttcc cttcttcccc cgtacctctc accagcgggtg tcttcggtat 180
gtgaaaaccc aattcttcaa ccttacagga tccaacaggc aatcacagct ggcattcttac 240
ctttatcacc cttgttctct caacaatcat cagccctatt acatcagtta cctttgggtgc 300
at ttatttggc aaaaaacatc agggcacaac aactacaaca acttgtgcta gcaaaccttg 360
ctgectactc tcagcaacag cagtttcttc cattcaacca actagctgca ttgaactctg 420
cttcttattt gcaacaacaa caactaccat tcagccagct acctgctgcc taccctccagc 480
aatttcttcc attcaaccaa ctggcagcat tgaactctcc tgcttattta cagcagcaac 540
aactactacc attcagccag ctagctgggtg tgagccctgc taccttcttg atacaaccac 600
agttgttgcc gttctaccag cacgctgcgc ctaacgctgg ca 642
  
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<210> 13476
 <211> 266
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-093-Q1-K6-D7

 <400> 13476

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ctttgacaaa cccagcagca ttctaccaac aacctatcat tgggtggtgcc ctcttttaga 180
tttcttatga gttatagttc aataataaag ttttttgtct gatgtttgtg gcttcccaga 240
aataagaaag tacatttcta gattct 266
  
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<210> 13477
<211> 638
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-093-Q1-K6-D8

<400> 13477

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atggctacca agatattagc cctccttgcg cttcttgccc ttttagtgag cgcaacaaat 120
gcggttcatta ttccacagtg ctcacttgct cctagtgcc a ttattccaca gttcctccca 180
ccagttactt caatgggctt cgaacatcca gccgtgcaag cctacaggct acaactagcg 240
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ccacttgctc tggcgaacgt agctgcatac cagcaacaac aacagctgca acagtttatg 480
ccagtgtcga gtcaactagc catggtgaac cctgccgtct acctacaact actttcatct 540
agcccgctcg cggtgggcaa tgcacctacg tacttacaac aacagttgct gcaacaaatt 600
gtaccagctc tgactcagct agctgtggca aacctgc 638

<210> 13478
<211> 653
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-093-Q1-K6-D9

<400> 13478

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taccaagata ttagccctcc ttgcgcttct tgccctttta gtgagcgcaa caaatgcgtt 120
cattattcca cagtgtcac ttgctcctag tgccattatt ccacagttcc tcccaccagt 180
tacttcaatg ggcttcgaac atccagccgt gcaagcctac aggctacaac tagcgcttgc 240
ggcgagcgcc ttacaacaac caattgcccc attgcaacaa caatccttgg cacatctaac 300
cctacaaacc attgcaacgc aacaacaaca acaacaacag tttctgcat cactgagcca 360

cctagccgtg gtgaaccctg tcacctactt gcaacagcag ctgcttgcac ccaaccact 420
 tgctctggcg aacgtagctg cataccagca acaacaacag ctgcaacagt ttatgccagt 480
 gctcagtcaa ctagccatgg tgaaccctgc cgtctaccta caactacttt catctagccc 540
 gctcgcgggtg ggcaatgcac ctacgtacct acaacaacag ttgctgcaac aaattgtacc 600
 agctctgact cagctagctg tggcaaacc tgctgcctac ttacaacagt tgc 653

<210> 13479

<211> 632

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-093-Q1-K6-E1

<400> 13479

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 cgcaagctcc tatagcttcc cttcttcccc cgtacctctc accagcgggtg tcttcggtat 180
 gtgaaaacc aattcttcaa ccctacagga tccaacaggc aatcacagct ggcattctac 240
 ctttatcacc cttgttcttc caacaatcat cagccctatt acatcagtta cctttgggtgc 300
 atttattggc acaaaacatc agggcacaac aactacaaca acttgtgcta gcaaaccctg 360
 ctgctacttc tcagcaacag cagtttcttc cattcaacca actagctgca ttgaactctg 420
 cttcttattt gcaacaacaa caactacat tcagccagct acctgctgcc tacccccagc 480
 aatttcttcc attcaaccaa ctggcagcat tgaactctcc tgcttattta cagcagcaac 540
 aactactacc attcagccag ctagctgggtg tgagccctgc taccttcttg atacaaccac 600
 agttgttgcc gttctaccag cacgctgcgc ct 632

<210> 13480

<211> 592

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-093-Q1-K6-E10

<400> 13480

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taccttttggg gcattttgttg gcacaaaaca tcaaggcaca acaactacaa caacttgtgc 120
taggaaacct tgctgcctac tctcagcaac agcagtttct tccattcaac caactggctg 180
cattgaactc tgctgcttat ttgcaacaac aactaccatt cagtcagcta gctgctgcct 240
acccccagca atttcttcca ttcaaccaac tggcagcatt gaactctgct gcttatttac 300
aacagcaaca gctaccacca ttcagccagc tagctgatgt gagccctggt gccttcttga 360
cacaacaaca gttgttgccg ttctacctgc acgctgcgcc taacgctggc accctcttac 420
aactgcaaca attgctgcc a ttcaaccaac ttgctttgac aaaccaaca gcgttctacc 480
aacaacccat cattggtggg gccctctttt agattgctta tgagttatac ttcaataatg 540
aagttttttg gatgatgttt gtggcttccc agaaataaga aagtacattt ct 592

<210> 13481
<211> 621
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-093-Q1-K6-E11

<400> 13481

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atgctccttg gtctttctgc aagtgttget accganacca ttttcccaca atgctcacia 120
gctcctatag cttcccttct tccccatac ctctcaccag cgggtgtcttc aatgtgtgaa 180
aaccaattg ttcaacccta caggatccaa caggcaatcg caacaggcat cttaccatta 240
tcacccttgt tcctccaaca accgtcagcc ctattacagc agttacctt ggtccatttg 300
gtggcacaaa acatcagggc acaacaacta caacaacttg tgctagcaaa ccttgctgca 360
tactctcagc aacatcagtt tcttccattc aaccaactgg ctgcattgaa ctctgctgct 420
tatttgcaac aacaattacc attcagccag ctagtgtctg cctaccccca gcaatttctt 480
ccattcaacc aactagcagc attgaactct gctgcttatt tacagcagca acaactacta 540
ccattcagcc agctagctga tgtgagccct gctgccttct tgacacaaca acagttgttg 600
ccgttctacc tgcacgctat g 621

<210> 13482

<211> 533
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-093-Q1-K6-E12

<400> 13482

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tcccttcttc ccccgtagct ctcaccagcg gtgtcttcgg tatgtgaaaa cccaattctt 180
caaccctaca ggatccaaca ggcaatcgca gctggcatct tacctttatc acccttggtc 240
ctccaacaat catcagccct attacaacag ttaccttggg tgcatttatt ggcacaaaac 300
atcagggcac aacaactaca acaacttggt ctagcaaacc ttgctgcta ctctcagcaa 360
cagcagtttc ttccattcaa ccaactaggt tcattgaact ctgcttctta tttgcaacaa 420
caacaactac cattcagcca gctacctgct gcctacccc agcaatttct tccattcaac 480
caactagcag cattgaactc tntctgcttat ntacagcagc aaccactact acc 533
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<210> 13483
 <211> 408
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-093-Q1-K6-E4

<400> 13483

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ccagcaattt ctccattca accaactagc agcattgaac tctgctgctt atttacagca 120
gcaacaacta ctaccattca gccagctagc tgatgtgagc cctgctgctt tcttgacaca 180
acaacagttg ttgccgttct acctgcacgc tatgcctaac gctggcacc tcttacaact 240
gcaacaattg ctgccattca accaacttgc tttgacaaac ccaacagtgt tctaccaaca 300
acctatcatt ggtgggtgcc tcttttagat tgcttatgag ttatacttca ataataagt 360
tttttgatg atgtttgtgg ctccccagaa ataagaaagt acatttct 408
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<210> 13484

<211> 624

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-093-Q1-K6-E5

<400> 13484

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tgcaagtgt gctacggcga ccattttccc gcaatgctcg caagctccta tagcttccct 120
tcttcccccg tacctctcac cagcgggtgtc ttcggtatgt gaaaacccaa ttcttcaacc 180
ctacaggatc caacaggcaa tcacagctgg catcttacct ttatcacctt tggtcctcca 240
acaatcatca gccctattac atcagttacc tttggtgcat ttattggcac aaaacatcag 300
ggcacaacaa ctacaacaac ttgtgctagc aaaccttgct gcctactctc agcaacagca 360
gtttcttcca ttcaaccaac tagctgcatt gaactctgct tcttatttgc aacaacaaca 420
actaccattc agccagctac ctgctgccta cccccagcaa tttcttccat tcaaccaact 480
ggcagcattg aactctcctg cttattttaca gcagcaacaa ctactacat tcagccagct 540
agctggtgtg agccctgcta ccttcttgat acaaccacag ttgttgccgt tctaccagca 600
cgctgcgcct aacgctggca ccct 624

<210> 13485

<211> 369

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-093-Q1-K6-E6

<400> 13485

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gctcgcaagc tcctatagct tcccttcttc cnncccgtna cctnctnca accagcgggtg 180
tcttcggtat gtgaaaaccc aattcttcaa ccttacagga tccaacaggc aatcgcagct 240
ggcatcttac ctttatcacc cttgttctc caacaaatca tcagccctta ttacaannna 300
gttacctttt ggtgccattt tattgggcac aaaacatcag ggcacaacaa ctacaacaan 360
ncttgtgct 369

<210> 13486
<211> 583
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-093-Q1-K6-E8

<400> 13486

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ttatctaact ccaaaaacct gaagctggtg cttgtggttc ttgctttcat tgcttttagta 120
tcaagtgttt cttgtacaca gacaggcggc tgcagctgtg gtcaacaaca aagccatgag 180
cagcaacatc atccacaaca acatcatcca caaaaacaac aacatcaacc accaccacaa 240
catcaccagc agcagcaaca ccaacaacaa caagttcaca tgcaaccaca aaaacatcag 300
caacaacaag aagttcatgt tcaacaacaa caacaacaac cgcagcacca ccaccaacaa 360
caacaacaac agcaccaaca acaacatcaa tgtgaaggcc aacaacaaca tcaccaacaa 420
tcacaaggcc atgtgcaaca acacgaacag agccatgagc aacaccaagg acagagccat 480
gagcaacaac atcaacaaca attccagggt catgacaagc agcaacaacc acaacagcct 540
cagcaatatc agcagggcca ggaaaatcac aacagcaaca atg 583

<210> 13487
<211> 638
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-093-Q1-K6-E9

<400> 13487

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gcgcggggct gcagggttg tacggcgtg ggcgggcct gacgacgatg atgggcgccc 180
gcgggctgta cccctacgcg gactacctga ggcagccgca gtgcagcccg ctggcgggcg 240
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gctgccagca gcagatgagg atgatggacg tgcagtccgt cgcgcagcag ctgcagatga 360
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agcagcagca gcagctgctg gcagcccagg gtctcaaccc catggccatg atgatggcgc 480
agaacatgcc ggccatgggt ggactctacc agtaccagct gccagctac cgcaccaacc 540
cctgtggcgt ctccgctgcc attccgccct actactgatt catgatattt gggaaatctc 600
ctctatccat ctctctctat ctatatatgt aataatgc 638

<210> 13488

<211> 653

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-093-Q1-K6-F10

<400> 13488

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actcattact acggaaggac attactccat ggaggagctg aatacagagc cactggacgt 180
gggtttgtgg tgttccatgc gaaatttgct gacaactatc gactctattc ccgtagccat 240
tttgtcaagg gcattgagct gatgattcta ctagttgtgt atgaaatatt tagccagcca 300
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tggtctcttg caccattcct gttcaatcct tctggatttg agtggcagaa gattgtggac 420
gactggaccg attggcacia gtggatcagc aatcgtggag gtatcgggtg agcaccagag 480
aaaagctggg agtcatggtg ggaaaaggag caagagcccc ttcgatactc cgggaagcgc 540
ggtactgttg ttgaaatact gcttgcgctg cgtttcttta tctaccagta cggacttgtg 600
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<210> 13489

<211> 632

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-093-Q1-K6-F11

<400> 13489

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tcctctgaca agcacaagag ctacgcctgc tgtacctgtt ggaggatggt acaggcttat 120

tgatatccct atgagtaact gcttcaacag tgggtataaat aagatatttg tgatgagtca 180
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 tcctgttgat gagagccgag cttctaaaaa tgggctagtg aagattgata atactggacg 540
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<210> 13490

<211> 620

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-093-Q1-K6-F12

<400> 13490

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 gaatgccacc gccgccgagc agccaattcc aaagcgtgac aaagccgctg caaatgattc 180
 aacatacctc aatcctcaag ctcatgatag tgttcttgga atcattctgg gaggtggtgc 240
 tgggactaga ttgtaccctt tgacaaagaa gcggtgccaag cctgcagtgc cattgggtgc 300
 caactataga ctgattgata ttctgtcag caattgtctc aacagcaaca tatccaagat 360
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 gagcaacatt ggaggggtaca agaatgaagg gtttggtgaa gtcttagctg cacagcagag 480
 cccagataat ccaaactggt ttcaggggtac tgcagatgct gtaaggcagt acttgtgggt 540
 gtttgaggag cataatgtga tgggaatttct aattcttgct ggcgatcacc tgtaccggat 600
 ggactatgaa aagttcattc 620

<210> 13491

<211> 625

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-093-Q1-K6-F2

<400> 13491

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tctatagct tcccttcttc ccccatacct ctcaccagcg gtgtcttcaa tgtgtgaaac 180
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ctctcagcaa catcagtttc ttccattcaa ccaactggct gcattgaact ctgctgctta 420
tttgcaacaa caattacat tcagccagct agttgctgcc tacccccagc aatttcttcc 480
attcaaccaa ctagcagcat tgaactctgc tgcttattta cagcagcaac aactactacc 540
attcagccag ctagctgatg tgagccctgc tgcttcttg acacaacaac agttgttgcc 600
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<210> 13492
 <211> 654
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-093-Q1-K6-F4

<400> 13492

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agatgccttg cccctgcgcg gggctgcagg gcttgtagcg cgctggcgcc ggctgacga 180
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cgctccggca acagtgtgct cagcagcaga tgaggatgat ggacgtgcag tccgtcgcgc 360
agcagctgca gatgatgatg cagcttgagc gtgccgctgc cgccagcagc agcctgtacg 420

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agccagctct gatgcagcag cagcagcagc tgctggcagc ccagggtctc aaccccatgg 480
ccatgatgat ggcgcagaac atgccggcca tgggtggact ctaccagtac cagctgcca 540
gctaccgcac caaccctgt ggcgtctccg ctgccattcc gccctactac tgattcatga 600
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<210> 13493
<211> 546
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-093-Q1-K6-F5

<400> 13493

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ccaagcgtat ggtcatccct gacgctctta aggttctgag gctacagcct ggacacaagt 180
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gtctttgttt taagtgttcg gtaacagttt gtgacagtat aatctggtaa accgtgttat 480
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ttgttc 546

<210> 13494
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-093-Q1-K6-F6

<400> 13494

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agctcctata gcttcccttc ttcccccata ccttccatca attatagctt caatatgtga 180
aaacccagct cttcaaccat ataggcttca acaagcaatc gcagcaagca acataccttt 240
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<210> 13495

<211> 622

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-093-Q1-K6-F8

<400> 13495

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tggttaaatta tatactacc agatatttcg aggttttagcc tatattcaca cagtacctgg 420
tgtttgccac agggatgtga aaccacagaa tcttttggtt gatccattga ctcaccaagt 480
gaagatatgt gattttggga gtgccaaaat gttggtcaaa ggtgaagcaa acatttcata 540
tatatgctca cgttattacc gtgctccaga gctcatattt ggggcaaccg agtacacaac 600
atcaattgat atttggtcag ct 622

<210> 13496

<211> 616

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-093-Q1-K6-F9

<400> 13496

ggttcatctg ccgcccgcac catgccacta cctactcaa ccgccccggc ctcagcctca 60
tccccagcca caccatgcc cgtgccaaac gccgcatcca agcccgtgcc agctgcaggg 120

aacctgcggc gttggcagca ccccgatcct gggccagtgc gtcgagttcc tgaggcatca 180
 gggcagcccc acggcgacgc cctactgctc gcctcagtgc cagtcgttgc ggcagcagtg 240
 ttgccagcag ctcaggcagg tggagccgca gcaccggtac caggcgatct tcggcttggt 300
 cctccagtcc atcctgcagc agcagccgca aagcggccag gtcgcggggc tgttggcggc 360
 gcagatagcg cagcaactga cggcgatgtg cggcctgcag cagccgactc catgccccta 420
 cgctgctgcc ggcggtgtcc cccactgaag aaactatgtg ctgtagtata gccgctggct 480
 agctagctag ttgagtcatt tagcggcgat gattgagtaa taatgtgtca cgcatcacca 540
 tgggtggcag tgtcagtgtg agcaatgacc tgaatgaaca attgaaatga aaagaaaaaa 600
 atactccatc tgttcc 616

<210> 13497
 <211> 560
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-093-Q1-K6-G1

 <400> 13497

gtaccaacaa tcataatata tataattagt atcagcacta aatgaaaaaa tatcatgaat 60
 tcttaagact ccaaaaaacta tgaacaaggg ctttgacggt gacgatttta tcgcaatgct 120
 ctcaagctcc tatagctcac attacttgcc gcgtgacctt tgaccagaag agcaatatcg 180
 gtgtgtgaaa tcataattct taaaccctac atgatccaac acgcaatcac agactagcat 240
 cttaccttta tcacccttgt taatacaaaa atcatcaagc ctataacata acacacatac 300
 atgagcatca ataggaacaa aatattaaag aacaacaact acaacaactt gagctagaaa 360
 aacttgataa ctactgtaac aaacagaaca ttattgcata caaccaaata aatatattga 420
 actatactaa ttatttggaa caacaacaaa taacattcat gaagaatacc taatacatac 480
 ccatagaaat caatatcatt aaaacaacta gcattcattaa actctcctgc ttatacacag 540
 cactcacaac tactaccatt 560

<210> 13498
 <211> 376
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-093-Q1-K6-G10

<400> 13498

gcgccgcccnc ggcgcgccgg ccggaggaag aggaggccgg ggccgncgcg agggccaacc 60
acgggggggaa ccgcccncag aacacggccc ggcccccgcg gcgcgggncg gcgcgacccn 120
ccggggcggac aggaagaccg gcgcagcgcc gcacgcagcg ccccgcgggg gggggggaca 180
gngggcccacc aaggccgcgg aagagccang ngcagccggg agaacggccc cancaaagaa 240
agggggccggc aggagaaggc ccaggncaaag cgcggcagcc nncggggcag aacgcgagac 300
ncaagggnga aacncgacn ggccaaggcg cgacggccgc cgaggcgggg gcggaccagg 360
cgngaccagg acgacg 376

<210> 13499

<211> 637

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-093-Q1-K6-G11

<400> 13499

nttgnaaacc aactagcaac atagnaaagc acaatagtgt accaacaatg gcagccaaaa 60
tttttgctc cttatgctcc ttggtctttc tgcaagtgt gctacggcga ccattttccc 120
gcaatgctcg caagctccta tagcttcctt tcttcccccg tacctctcac cagcgggtgc 180
ttcggtatgt gaaaacccaa ttcttcaacc ctacaggatc caacaggcaa tcacagctgg 240
catcttacct ttatcacctt tggtcctcca acaatcatca gccctattac atcagttacc 300
tttggtgcat ttattggcac aaaacatcag ggcacaacaa ctacaacaac ttgtgctagc 360
aaaccttgct gcctactctc agcaacagca gtttcttcca ttcaaccaac tagctgcatt 420
gaactctgct tcttatttgc aacaacaaca actaccattc agccagctac ctgctgccta 480
ccccagcaa tttcttccat tcaaccaact ggcagcattg aactctcctg cttatttaca 540
gcagcaacaa ctactaccat tcagccagct agctggtgtg agccctgcta ccttcttgat 600
acaaccacag ttgttgccgt tctaccagca cgctgcg 637

<210> 13500

<211> 502
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-093-Q1-K6-G12

<400> 13500

acaatggcga ccaagatatt ttcctcctt atgctccttg ctctttctgc atgtgttgct 60
aacgcgacaa ttttcctca atgctgcaca gctcctatag cttttcttct tccccatac 120
cttcacagcg ggggggggcg atatgtgaaa acccagctct ttaaccatat aggcttgaac 180
aagcaatcgc agcatgcaac atacctttat cgcccttggt gtttcaacaa tcgccagccc 240
tatctttggt gcaggcattg gtgcaaacca tcagggtcga gcagctgcag caactcgtgc 300
tacctctgat caaccaagtt gctctggcaa acctttctcc ctactctcag cgtcaacaat 360
ttgttgcat taaccaactg tctacactga accctgctgc ttatttgag caaacctat 420
tacctttta gccagctagc tactgtgctc tctcagcaac aacaactttt tccattttac 480
ccattgggtc gcactgaacc cc 502

<210> 13501
<211> 194
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-093-Q1-K6-G3

<400> 13501

agcgtccgaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaag gggggaaatt ttttaaaggt aaaaatgttg tgaattggtt 180
ggggttttta tatt 194

<210> 13502
<211> 618
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-093-Q1-K6-G4

<400> 13502

ngacagttcc ttcagcccca actccagnat gttgctgaag cacaggcccc agttgctgag 60
 gaggacgacg acgatgatgt tgaccttttt ggtgaggaga ccgaantgag aagaagctgc 120
 tgaagagcgt gctgcagctg ccaaggcttc tggcaagaag aaagaatctg ggaagtcac 180
 agttttactt gatgtgaagc catgggacga tgagactgac atggccaagc tcgaggaagc 240
 tgttaggagt gtccagatgg aagggtgct ctggggcgca tccaagcttg tcccagttgg 300
 atatggtatc aagaagctgc aaatcatgat gaccatcgtc gacgaccttg tctctgtcga 360
 cactctcatt gaggactatc tgtgcgtga gccagtgaac gagtacgtgc agagctgcga 420
 catagttgcc ttcaacaaga tctaggcgtg acttccgac agtccttctc ctggggtgct 480
 ggcgatggtg gtggctgggc aatgcaccag cctaatttat ccatagctat atgtctgctt 540
 tgtgtggcca gtgatattgc cgtgagtatt tttggatcct attcgagtcg aatgtaccag 600
 taccagagtt aatttgct 618

<210> 13503

<211> 491

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-093-Q1-K6-G6

<400> 13503

tggctcttct gcaannnana aacgggggag gggggggggn aaataaaaaa aaaaggaagg 60
 ggtgaataag gagaangttt ttttagaatg gtgaaaagag ttgtattagt ttantttttt 120
 ggggtggtac ttttaacaaa gggggtgttt gggtttgttg aaacccaaat ttttaaact 180
 tggggggggg agcgggcatt aacggttggc tttttacctt aataaaaaaa gtacttcaac 240
 aattaataat ctttataaaa gaagttccct tgggggattt cttgggtcca aaaaataagg 300
 gggcgaacaa ctaaaaaaat tgggggttaga aaaccttgct gcttactgta agtatcagaa 360
 gttttttcct ttcaacaaac tagttgattg aaattttgct gttaatttgc aacaaaaaca 420
 acaacatttc agcaagtaaa ctgctgccta cccaagcaa ttgttttcat taaaccaa 480
 gacagaattg a 491

<210> 13504

<211> 626
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-093-Q1-K6-G7

<400> 13504

atTTTgagca tTcagaacac accaagcgaa gcgactagc aacaacctaa caacaatggc 60
taccaagata ttatccctcc ttgcgcttct tgcgcttttt gcgagcgcaa caaatgcgtc 120
cattattcca caatgctcac ttgctcctag tTcattatt cQacagttcc tcccaccagt 180
tacttcaatg gccttcgaac acccagctgt gcaagcctat aggctacaac aagcgattgc 240
ggcgagcgtc ttacaacaac caattgcccc attgcaacaa caatccttgg cacatctaac 300
aatacaaacc atcgcaacgc aacagcaaca acagttccta ccagcactga gccacctagc 360
catggtgaac cctgtcgctt acttgcaaca gcagctgctt gcatccaacc cacttgctct 420
agcaaacgta gttgcaaacc agcaacaaca acaactgcaa cagtttctgc cagcgcttag 480
tcaactagcc atggtgaacc ctgccgccta cctacaacag caacaactgc tttcatctag 540
cccgctcgct gtggccaatg cacctacata cctgcaacaa gaattgttgc aacagattgt 600
accagctcta actcagctag ctgtgg 626

<210> 13505
<211> 646
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-093-Q1-K6-G8

<400> 13505

caactagcaa catagnaaag cacaatagtg taccaacaat ggcagccaaa atttttgcct 60
ccttatgctc cttggtcttt ctgcaagtgc tgctacggcg accattttcc cgcaatgctc 120
gcaagctcct atagcttccc ttcttcccc gtacctctca ccagcggtgt cttcggtatg 180
tgaaaaccca attcttcaac cctacaggat ccaacaggca atcgcagctg gcatcttacc 240
tttatcacc ttgttcctcc aacaatcatc agccctatta caacagttac ctttggtgca 300
tttattggca caaaacatca gggcacaaca actacaacaa cttgtgctag caaaccttgc 360
tgccactct cagcaacagc agtttcttcc attcaaccaa ctaggttcat tgaactctgc 420

ttcttatttg caacaacaac aactaccatt cagccagcta cctgctgcct acccccagca 480
 attttcttcca ttcaaccaac tagcagcatt gaactctcct gcttatttac agcagcaaca 540
 actactacca ttcagccagc tagctgggtgt gagccctgct accttcttga cacaaccaca 600
 gttgttgccg ttctaccagc acgttgcgcc taacgctggc accctc 646

<210> 13506
 <211> 630
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-093-Q1-K6-G9

<400> 13506

attgctgcaa agccttttga tcttgtttta aagcgtggga gcatcattca gaaagcatca 60
 aatactgatg ggttaaccat aatcccagag tatgattgga aattattctc tgaagagtgg 120
 agtgctacac ctggaaaagt atatctgctg aaattgcttt tagcaagagt tctcaagaca 180
 aactgcatgg atcatctgaa gcagtgccga ttacggatgg aaatctaggg cagtctcttg 240
 atgacacaaa cgatgatttg ggagccagag agccttatat cagaactgat cccgaggttt 300
 gtgaagaatg tattggcgaa agggagagct gtgcattggt ggaaaaactc aactatcaaa 360
 atgaagatat ccacgtttac tttgtccatg gaaaagaagc accaaagtct attaaagaag 420
 catctaaagc tgttactgta ccagatcgtc ggacatcgaa gcgttccccg agaacaagct 480
 ctggaaaactc aatcagtttg aaagtctctg gctctacatc tgtctatcag ttgaaactga 540
 tgatatggga atctttaggg attgttaagg agaaccaa at gcttcacaaa ggctctgttg 600
 agattgaaga tgattttgct actcttgctg 630

<210> 13507
 <211> 582
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-093-Q1-K6-H1

<400> 13507

attacctttg gtgcatttat tggcacaaaa ctgagggcac aacaactaca acaacttggt 60

ctagcaaacc ttgtgccta ctctcagcaa cagcagtttc ttccattcaa ccaactagct 120
gcattgaact ctgcttctta ttgcaacaa caacaactac cattcagcca gctacctgct 180
gcctaccccc agcaatttct tccattcaac caactggcag cattgaactc tcctgcttat 240
ttacagcagc aacaactact accattcagc cagctagctg gtgtgagccc tgctaccttc 300
ttgatacaac cacagttggt gccgttctac cagcacgctg cgcctaacgc tggcacccctc 360
ttacaactgc aacaattgct gccattcaac caacttgctt tgacaaacc agcagcgctc 420
taccaacaac ccatcattgg tggtgccctc ttttagattt cttatgagtt atagttcaat 480
aataaagttt tttgtctgat gtttgtggct tcccagaaat aagaaagtga cttttctngn 540
nnaaaaaaaa naanngaaaa aaaaaaaaaa aaaaaggggc gg 582

<210> 13508
<211> 650
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-093-Q1-K6-H10

<400> 13508

attttgagca ttcagaaaca caccaagcga agcgcactag caacgaccta acaacaatgg 60
ctaccaagat attagccctc cttgcgcttc ttgccctttt tgtgagcgca acaaatgcgt 120
tcattattcc acaatgctca cttgtccta gtgccattat tccacagttc ctcccaccag 180
ttacttcaat gggcttcgaa cacctagctg tgcaagccaa catgcaacaa caagcgcttg 240
cggcgagcgt cttacaacaa ccaattgccc aattgcaaca acaatccttg ccacatctaa 300
caatacaagc catcacaacg caacagcaac aacagttcct accagcactg agccacctag 360
ccatggtgaa ccctgccgcc tacttgcaag agcagctgct tgcattccaa ccacttgctc 420
tggcgaacgt agttgcaaac cagcaacaac aacagctaca acagtttctg ccaacgctca 480
gtcaactagc catggtgaac cctgccgcct acgtacaaca acaacaactg ctttcatcta 540
gcccgcctgc tgtgggcaat gcacctacat acctgcaaca acaattgttg caacagattg 600
taccagctct gactcaacta gctgtggcaa accctgttgc ctacttgcaa 650

<210> 13509
<211> 296
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-093-Q1-K6-H11

<400> 13509

gcaacaacta ctaccattca gccagctagc tgggtgtgagc cctgctacct tcttgacaca 60

accacaattg ttgccgttct accagcagc tgcgcctaac gctggcacc tcttacaact 120

gcaacaattg ctgccattca accaacttgc tttgacaaac ccaacagcat tctaccaaca 180

acccatcatt ggtggtgccc tcttttagat ttcttatgag ttatagttca ataataaagt 240

tttttgtctg atgtttgtgg cttcccagaa ataagaaagt acattttctag attctt 296

<210> 13510

<211> 627

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-093-Q1-K6-H2

<400> 13510

cgttgccctt gctctcctgg cgctcgctgc gagcgccgcc tccagtacaa gcggcggtg 60

tggctgccag acaccaccgt ttcatctacc gcctccgttc tatatgccgc ctccgttcta 120

tctgccgccg cagcagcagc cgcagccatg gcaatacccc actcaaccac cgcagctaag 180

cccgtgccag cagttcggat cctgcggcgt cggcagcgtc ggcagcccgt tcctgggcca 240

gtgcgtcgag ttctgaggg accagtgcag cccggcgggc acgccctacg gctcgccaca 300

gtgccaggcg ctgcagcagc agtgcgtgcca ccagatcagg caggtggagc cgctgcaccg 360

gtaccaggcg acatacgggtg tggtcctgca gtccttctg cagcagcagc cgcagggcga 420

gctcgcgggc ctgatggcgg cccaggtagc gcagcagctg acggcgatgt gcggtctgca 480

gctgcagcag ccaggtccct gcccttgcaa cgcagctgcc ggcggtgtct actactgagg 540

aaactatgta ctgtagtaat aatgtaatgg agccgctgac tagctaccta tagggctata 600

gctagttcac tcgtttagcg gcgatga 627

<210> 13511

<211> 637

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-093-Q1-K6-H4

<400> 13511

gcaacatagn aaagcacaat agtgtaccaa caatggcagc caaaatattt tgcttcctta 60
tgctccttgg tctttctgca agtggtgcta ccgagaccat tttcccacaa tgctcacaag 120
ctcctatagc ttcccttctt ccccatatcc tctcaccagc ggtgtcttca atgtgtgaaa 180
ccccattgt tcaaccctac aggatccaac aggcaatcgc aacaggcatc ttaccattat 240
cacccttgtt cctccaacaa ccgtcagccc tattacagca gttacctttg gtccatttgg 300
tggcacaaaa catcagggca caacaactac aacaacttgt gctagcaaac cttgctgcat 360
actctcagca acatcagttt cttccattca accaactggc tgcattgaac tctgctgctt 420
atttgcaaca acaattacca ttcagccagc tagttgctgc ctacccccag caatttcttc 480
cattcaacca actagcagca ttgaactctg ctgcttattt acagcagcaa caactactac 540
cattcagcca gctagctgat gtgagccctg ctgccttctt gacacaacaa cagttgttgc 600
cgttctacct gcacgctatg cctaacgctg gcaccct 637

<210> 13512
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-093-Q1-K6-H5

<400> 13512

cgtgtactg cctgtctcat tcaggagaaa tagggttgct gaccgtgcag tgcctatcgg 60
gtcctgggtgt ctttaagagt cggaggtgaa tttgttgcaa ggtcactatc acgagcgcac 120
tatttacatg gggggagggg gcctggggta aatcactcaa aagttttcac tcctaaaaag 180
ataagaacgt taggtagcta ccgctgttat gatcctgcat catgcatcct ttacgttcga 240
tggaactcctg ggaagacctg ggggtgtctgg tacttcaggc ttttaattttg cttgatgtat 300
ggcctgtgtc ggcacaatcc ctacttgtag tgagatcgct accat 345

<210> 13513
<211> 651
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-093-Q1-K6-H6

<400> 13513

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cagtaagtcc ggcgacctag gtctctcggc ttgtccgcag cccgccggtc agtaatggcg 120
caggatgata cggttggttc tgctcagtgg ctgcacgagc acctagggat gcctgatgtt 180
aagggttttgg atgcttcctg gtacatgncg cggtagagaa caggggatcc atgngaaaga 240
atatcagggtg gcacacatcc ccggtgcgct attcttcgac ttagatggca tagttgatcg 300
gacaactgat ttaccgcaca tgctgccatc agaagaggct tttgcagcag caatttctga 360
gctggatata aaaaaccagg ataaagttat tgtctatgat ggaaagggat tcttcagtgc 420
acctcgtgtt tgggtggatgt ttagagtgtt tgggcacaag aaagtctggg tactagacgg 480
cggtttgctt cagtggcaag cttctgggtt caacgtggaa aaggccagcc ctgacgatga 540
cgcagttctg aaatcaatcg ctgcaaacag ggctgtcaaa aggggtttata atggtgaaca 600
gacaaatata atctcgtttc agactgaatt tcagcctaatt ctattctggg c 651

<210> 13514

<211> 641

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-093-Q1-K6-H7

<400> 13514

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ccttatgctc cttgggtctt ctgcaagtgt tgctaccgca accattttcc cacaatgctc 120
acaagctcct atagcttccc ttcttcccc atacctctca ccagcgggtg cttcaatgtg 180
tgaaacccca attgttcaac cctacaggat ccaacaggca atcgcaacag gcattctacc 240
attatcacc cttgttctcc aacaaccgtc agccctatta cagcagttac ctttggtcca 300
tttggtggca caaacatca gggcacaaca actacaacaa cttgtgctag caaaccttgc 360
tgcatactct cagcaacatc agtttcttcc attcaaccaa ctggctgcat tgaactctgc 420
tgcttatttg caacaacaat taccattcag ccagctagtt gctgcctacc ccagcaatt 480

tcttccattc aaccaactag cagcattgaa ctctgctgct tatttacagc agcaacaact 540
 actaccattc agccagctag ctgatgtgag cctgctgccc ttcttgacac aacaacagtt 600
 gttgccgttc tacctgcacg ctatgcctaa cgtcggcacc c 641

<210> 13515

<211> 634

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-093-Q1-K6-H8

<400> 13515

atttctgcaa gtgctgctac ggcgaccatt ttcccgcaat gtcacaagc tcctatagct 60
 tcccttcttc ccccgtagct ctccaccagcg gtgtcttcgg tatgtgaaaa cccaattctt 120
 caaccctaca ggatccaaca ggcaatcgca gctggcatct tacctttatc acccttggtc 180
 ctccaacaat catcagccct attacagcag ttacctttgg tgcatttatt ggcacaaaac 240
 atcagggcac aacaactaca acaacttggt ctagcaaacc ttgctgccta ctctcagcaa 300
 cagcagtttc ttccattcaa ccaactagct gcattgaact ctgcttctta ttgcaacaa 360
 caacaactac cattcagcca gctacctgtt gcctaccccc aacaatttct tccattcaac 420
 caactggcag cattgaactc tcctgcttat ttacagcagc aacaactact accattcagc 480
 cagctagctg gtgtgagccc tgctaccttc ttgacacaac cacagttggt gccgttctac 540
 cagcacgctg cgcctaacgc tggcaccctc ttacaactgc aacaattgct gccattcaac 600
 caacttgctt tgacaaacct agcagtgttc tacc 634

<210> 13516

<211> 650

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-093-Q1-K6-H9

<400> 13516

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 atgctccttg gtctttctgc aagtgttgct accgcaacca ttttcccaca atgctcacia 120

gctcctatag ctcccccttct tcccccatatc ctctcaccag cggtgtcttc aatgtgtgaa 180
 accccaattg ttcaacccta caggatccaa caggcaatcg caacaggcat cttaccatta 240
 tcacccttgt tctccaaca accgtcagcc ctattacagc agttaccttt ggtccatttg 300
 gtggcacaaa acatcagggc acaacaacta caacaacttg tgctagcaaa ccttgctgca 360
 tactctcagc aacatcagtt tcttccattc aaccaactgg ctgcattgaa ctctgctgct 420
 tatttgcaac aacaattacc attcagccag ctagtgtgtg cctacccccca gcaatttctt 480
 ccattcaacc aactagcagc attgaactct gctgcttatt tacagcagca acaactacta 540
 ccattcagcc agctagctga tgtgagccct gctgccttct tgacacaaca acagttgttg 600
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<210> 13517

<211> 499

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-030-Q1-K1-E8-F2A

<400> 13517

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 actgttctaa ggacaattaa cagtaacgta gtacgtacat gtatcatgca tgcaataaaa 180
 aaaaatacac accaatcaag ctttttcaaa cgaacgaaca gacgaaggaa tttggcatca 240
 gaaaccggga acaagcacgg tggagaacca gataacaagg tcgtcggcga gtgcctgtgc 300
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 gcacagcggg caggttcgct tgcaggacga gagccaccgg tcgacgcagt cccggtggaa 420
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<210> 13518

<211> 504

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-030-Q1-K1-E8-R2A

<400> 13518

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atgtgcatca aggcaagatc ggaggcaaca caagccggcg aggacagcgg ctgcccagcg 180
gacgagtgcc gcgtctgcct gtccaagatt cggctcggcg aggctaccg cgcactgccg 240
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tgtccgctgt gccgagttta tgtggccgat gggacaagc agccgggtggc ggcaaagcac 360
accagccgtg aagcacaggc actcgccgac gacctgttta tctggttctc caccgtgctt 420
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<210> 13519

<211> 758

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-050-B5-F6A

<400> 13519

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aggtacttcc cgtcatattt tggcctgac atcaccttaa ctgtttgtag gatcttgaag 180
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aattctggtt accttgtaca taaacaattt agagatagat aaaactgagc agtctcagat 360
gggaaatcgt acagatatc gttaaacagc tagccatata aacctgcatg ggaagatgcg 420
aggactgtgc tcgaggtaga atggcacgat gtccttggcc tcatagcatg gttgcttggc 480
attgctcagc gacggagctg ccagcattgc agcaataaga ccacctgtgc ttgtgccagc 540
gatgacatca aagtagttag ctatgcgcgc gctgctcca tcaagtcct aaaaaaatgt 600
aaaagaacac caacgaataa atggcactca aacttgcatt tatatatgca tttaggctca 660
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758

<210> 13520

<211> 227

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-050-B5-F7A

<400> 13520

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caaggaaggt agcagggatg acgcccttga cccaccacc atcgatgctc aagactgtga 120

tcaggtttcc cttgctgggt ggtgggcatg cgtagtgtt ttccattgca atggcaaaag 180

aagtatgatg tgtgaccccc cgtcttctca gcttttgtga attaatt 227

<210> 13521

<211> 140

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-023-Q1-K1-H1.F2

<400> 13521

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atgatgggtt gttggtagaa tgctgttggg tttgtcaaag caagttgggt gaatggcagc 120

aattgttgca gttgtaaaag 140

<210> 13522

<211> 141

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-023-Q1-K1-H1.R2

<400> 13522

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ttctaccaac aacctatcat tgggtgtgcc ctcttttaga tttcttatga gttatagttc 120

aataataaag ttttttgtct g 141

<210> 13523

<211> 447

<212> DNA

<213> Zea mays

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<400> 13523

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ctgccacgac aaggcgggggt tcatcaaaga gaactgggtg tttggcagca attgttgctg 180
ctgttggaag gcagcgacca atggggttagc caccgctagt ggattaagta actgttgctg 240
ctgttgtagg tccgcaccag agttcgacac agtcagttgg ttgaatggaa gtagttgttg 300
caagtaggca gcagggtttg ccacagctgg ctgagtaaga gctgggtacaa tttgttgtag 360
caactgttgt tgcaacaact gttgttgagg gtatgttggg tgctttgccc atagcgagcg 420
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<210> 13524

<211> 590

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-038-Q1-K1-G7.R2

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attccacaat gtcacttgc tccgagtgc attattccac agttcctccc tccagttact 180
tggagttgct nggggacacc cagctgtgca agcctattgg ctacaacaag cgcttgcggc 240
gagcgtctta taacaaccaa ttgccctatt acaacaacaa tccttggtc atctaaccat 300
acaaaccatc gcaacgcagc agcaacaagc actgagccac ctagccgtgg tgaaccctat 360
cgcctacttg caacaacagc tgcttgcatc caaccactt gcttttttaa acgtagctgc 420
ataccaacaa caacaacagt tgctacagtt tctaccagcg ctacgtcaac tagccatgg 480
gaaccctatc gtctacctac aacagcaaca acttctttca tctagccccg ctgcgtatgt 540

ggcaatgcac ctacatacct gcaacaacag tttgttgcaa caacagttgc 590

<210> 13525

<211> 59

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3077-001-Q1-K1-A10

<400> 13525

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<210> 13526

<211> 66

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3077-001-Q1-K1-A2

<400> 13526

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cgccgg 66

<210> 13527

<211> 241

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 13527

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aacagctggc atgctagcga agatgcccg accgatcagc cttgcaaaca tgttcgcaaa 180

ctgaacgggc aatgtgacgc gccatgtagc gcngcattaa tcgcggtac tgtcatgggt 240

a 241

<210> 13528

<211> 54

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3077-001-Q1-K1-D10

<400> 13528

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<210> 13529

<211> 88

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3077-001-Q1-K1-E6

<400> 13529

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gactactact tttattacgc tcattgcc 88

<210> 13530

<211> 56

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3077-001-Q1-K1-F9

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<210> 13531

<211> 97

<212> DNA

<213> Zea mays

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<400> 13531

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gtccgctagt tctagatcgc gagcgggcgg gctatac 97

<210> 13532

<211> 53

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3077-001-Q1-K1-H11

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<211> 51

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3077-001-Q1-K1-H4

<400> 13533

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<210> 13534

<211> 76

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3077-002-Q1-K1-A1

<400> 13534

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<210> 13535

<211> 63

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3077-002-Q1-K1-A2

<400> 13535

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agc 63

<210> 13536

<211> 135

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3077-002-Q1-K1-B3

<400> 13536

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 gccaccttcg tcggc 135

<210> 13537
 <211> 56
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3077-002-Q1-K1-C3

<400> 13537

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<210> 13538
 <211> 157
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 13538

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 cttccagaac ataatccttt tgacaacaag catctta 157

<210> 13539
 <211> 53
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3077-002-Q1-K1-C6

<400> 13539

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<210> 13540
 <211> 444
 <212> DNA
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<223> Clone ID: LIB3077-002-Q1-K1-D11

<400> 13540

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aatattcata tatctttttt tcaactaata ctgatcgaga acaatattat catacaagta 180
acattctcaa atacacgaag ttttttatta aacaaatcca atgatatctc agatttatgc 240
gatgctcatg ttgctttaat tgttttctct aacaaaggaa aactctatga gttctcttct 300
gatcccatca tggacaggat cctagaacga taccaacgac aaatatatgc cccaactggt 360
tctgaatcac acgcaaattt gtctttggaa tcttccaaac tcatgtcaac tattgaagtc 420
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<210> 13541

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3077-002-Q1-K1-D4

<400> 13541

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ataaaatcaa ctactgaca atctacatac atacatactt acatagacca tcactacatt 180
accctaatta ctcttctagc aatacataat attctcacct gctataataa taacaaaaat 240
tccacaaact atctttctta acaacagctc ctccatatta atcactaatc gcacccttct 300
tgcagctcat catcaacctc acctgttctc ttactaccc gcaacatcac tactattctt 360
atca 364

<210> 13542

<211> 73

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3077-002-Q1-K1-E1

<400> 13542

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 aggggtaaat cgc 73

<210> 13543
 <211> 124
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3077-002-Q1-K1-E5

<400> 13543

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 caca 124

<210> 13544
 <211> 64
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3077-002-Q1-K1-E8

<400> 13544

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 ggga 64

<210> 13545
 <211> 89
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3077-002-Q1-K1-F12

<400> 13545

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 actttacaac ttcgtaactc ctaaaactt 89

<210> 13546
 <211> 310
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3077-001-Q1-K1-C11

<400> 13546

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ctggccagat gactacaacg tgggtgaacag caaaacgact gcgataacca tgttaatagc 180
cttggttactc atcttgctgt agatagctgg cgtgatagct gacaggctag caacgatggc 240
cgttccgaac agtcgtgcaa actgaatggc aaacgggacg cgcaactgtaa cggggcatga 300
agcgccgcat 310

<210> 13547,

<211> 115

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3077-001-Q1-K1-D2

<400> 13547

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<210> 13548

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3077-001-Q1-K1-D5

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acctgaaatc caattactag tccatagttt tacatctact taattggaaa aaccttgact 120
ttcccaactt aaatcgcttt caacttattc cccctttacc taattgcctt ataaccaata 180
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<210> 13549

<211> 163

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3077-001-Q1-K1-F10

<400> 13549

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atcctatcta agatacactc tcacgcgctc tgtcatctct tctagtaggt cacctatatt 120
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<210> 13550

<211> 170

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3077-001-Q1-K1-G3

<400> 13550

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<210> 13551

<211> 218

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3077-001-Q1-K1-H10

<400> 13551

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ccatcactat acaaaaataa ataaactatc tatacatata attttttctca gatcacttta 180
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<210> 13552

<211> 175

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3077-001-Q1-K1-H6

<400> 13552

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gagcatccaa gctcacgcac gcgatgatac nacggcatag gtcttctatc atgccaccta 120
aatcaattc tctagtcgta cctatacaac atcgacactc cgaaaaccaa tcacg 175

<210> 13553

<211> 472

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3077-002-Q1-K1-A11

<400> 13553

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caaacttcaa atgtcccttc gaagactgac caatacatgc cacaacaccc tcaaaaagag 180
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tctactggtc aatcaaaaaga ggcaagacta gctcggggtt gtgctggact ttcaccccg 420
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<210> 13554

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<212> DNA

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<223> Clone ID: LIB3077-002-Q1-K1-A6

<400> 13554

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ggccccaact aaccttcttt acaaccattt ccccatctta attgccaatt ggacccctcc 240
ttctacccat tatttaacgc cgcagttggt gttactacca tcatgattac cagtataatt 300
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tgtttttccc cataaattat taatcgggtg cttcctttaa tgctaccaat taatttttt 419

<210> 13555

<211> 62

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3077-002-Q1-K1-A7

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tg 62

<210> 13556

<211> 61

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3077-002-Q1-K1-A8

<400> 13556

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a 61

<210> 13557

<211> 98

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3077-002-Q1-K1-C2

<400> 13557

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<210> 13558

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3077-002-Q1-K1-C5

<400> 13558

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cttgcttcc tttctacg 378

<210> 13559
<211> 123
<212> DNA
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<223> Clone ID: LIB3077-002-Q1-K1-D2
<400> 13559

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tac 123

<210> 13560
<211> 201
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3077-002-Q1-K1-E2
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atccacctta atctacatgc accacattcg catatcgcca gctgtcttaa tatcaaatag 180
gcttcgcacc catcgccctt t 201

<210> 13561
<211> 255
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3077-002-Q1-K1-F2

<400> 13561

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acattcacat cacatatcct acctttacta tcctctaact aaaaaaactc tacctttact 180
caacttacaa tctcttcact acataaacct ttctccatct caacttaatc taatacacca 240
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<210> 13562

<211> 153

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3077-002-Q1-K1-F8

<400> 13562

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ctaacttaca ctgcatgct actttctacc tct 153

<210> 13563

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3077-002-Q1-K1-G2

<400> 13563

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tcccaacttt attgcctttc aacacattcc cctttttcca acttgcttta ttaccaaaaa 180
gcccccaacc aatggccttt ccaacaattt cccacccta attgccaatt ggaccccccc 240
cttaaccgcg cctttaacct cgccggtttt gtg 273

<210> 13564

<211> 118

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3077-002-Q1-K1-G7
 <400> 13564
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 ccccaaatta aattacattc cccctctttt caaaaccttg accctgcaaa accactcc 118

<210> 13565
 <211> 76
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3077-002-Q1-K1-G8
 <400> 13565
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<210> 13566
 <211> 221
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-013-Q1-E1-D10
 <400> 13566
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 tcacggcgcc gtcaacgtgc atggcgagga ccagaagaag ctcgatgtcg tctccaacga 180
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<210> 13567
 <211> 443
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-007-Q1-E1-C9
 <400> 13567
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 gcccatgtct tcgtcggggc cctccccggc gacgggaatc cacgcgtcgc cgccgttggg 180
 ccttttgcg ggcacgggaa cccatcacac caggtcatgg ggcaaaacaa cctccacaag 240
 ttttactggg tctaccacca aacatgagca gagcttgcac ggaaatgtta agccgttgca 300
 attggcggca aatgaatcct ctggtttggc ttacagaagt ccagcactta aaaaccagtg 360
 gaatcttcct gctagttctt cctccactaa tgtggttacc acctttgatg ataacgaaca 420
 cgtgtcctcc agtgttattg aag 443

<210> 13568
 <211> 334
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-G10

<400> 13568

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 gaactttagg acatccttgg ggaaatgcat ctggtgcagc agctaactgt gtggcttttag 180
 aagcctgtgt acaagctcgt aacgaagggc gcgatcttgc tcgtgaaggt aatgaaatta 240
 tcaaagcagc ttgcaaatgg agtgctgaac tagccgcagc ttgtgaaata tggaaggaga 300
 tcaaatttga tggtttcaaa gcgatggata ccat 334

<210> 13569
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-H9

<400> 13569

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 ccccgtcacc accgccaaga tcaccatggg cgacctgccc ctcggcgcca ccgaggaccg 180
 cgtctgcggc accattgaca tcgagaaggc gctcaccgag ggcgtcaagg cgttcgagcc 240

cggcctgctc gccaaaggcca acagggggcat actgtacgtc gacgaggtca acctgctgga 300
 cgaccacctc gtcgacgtgc tgctggattc cgctgcgtcg ggggtggaaca cggtggagag 360
 ggagggtatc tccatatccc acctgctcg cttcatcctc atcggctctg gtaacccgga 420
 ggaaggggag ctc 433

<210> 13570
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-D9

<400> 13570

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 tgagcaccgg catcgtaaac aagctcctcc atggcccgtc gcagcacctg aggtgcgacg 180
 gcagcgacag ccgcaccctt gacgagacgc tcgagaacat gcacgccctc aaccggatgt 240
 tcagcctcga catggagaag gcgatcatcg agcagaagat caaggccaag gtggagaaga 300
 cacaaaactg aggccaggaa gcaatttttc taccaccatt atctatatat atagcgtctc 360
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 cg 422

<210> 13571
 <211> 457
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-H11

<400> 13571

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 cgaggaccct cgcaccaaga actgagcggg aagagaggta gagaggcaag cgcacgagag 120
 tttctgctcc tagtctcgtc tcgccccgcc tccgtctcct ttccctctct ggttctctct 180
 ctgcgattct cgtcgcattg gttccgttcc ctcacgaaag gcggtagctt tctgtcttcc 240
 ctgatctatc tagataatgg cgaccacgac gtcagcgacc accgcgcgag cagcagccgc 300

caccatcgcc aagccgcggg ggtcgtcgtc ggacctctgc cagaggggtg ccggcggcgg 360
caggcgggtgc tccgggggtg tgccgtgcga cgcgcgcggc gtggaggccc aggcgcatgc 420
cgtggcaaatt gcggccagcg tcgccgccct cgagcag 457

<210> 13572

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-G5

<400> 13572

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ccaccacggg cctgttcgc gagcacatcc cgtgttcg cctgctcttc ccgccgttcc 180
agaagtacat caccaagggg tacgtctccg aggaggaggc cgggaagcgg ctggcgagg 240
tggtgagcga cccagcctg accaagtccg gcgtgtactg gagctggaac aagaactccg 300
cgtccttcga gaaccagctc tctgaggagg ccagcgacgc cgacaaggcc aagaagctct 360
gggagatcag cgagaagctc gtcggcttgg cgtgatgcc 399

<210> 13573

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-D5

<400> 13573

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gaaggccaag ctctggtcac ggttcttctg cctctcgggtg tatgtgacca tgtacctgaa 120
tgactgccaa cgcactgcat tctatgaggg aattgggtctg gacaccaaag aattcgacat 180
gcatgtgatc atcgagacca accgcacaac ggcgaggatc ttccctgctg tctagacgt 240
cgagaacccc gagttcaaga tgaagcttga caggatgggt gagatcaacc agaagatcat 300
tgccgtcgga gagtccgacg aaatccccct agtgaagaac ctgaagagga ttctcttctg 360
cgctctctctg gtgtccgaga tcatcgccgc atacctcatg cccccatcg agtctggctc 420

ggttaat

427

<210> 13574
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-H8

<400> 13574

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atcctctccc cgcccgcccg tgccgcgcgc gcggttccc ttcctctccc gagccaagat 120
gaatgttgaa aagctcaaga agatggcagg tgctgtgcgc accgggggga agggtagcgt 180
gcgcaggaag aagaaggcag tccacaagac tacaaccaca gatgacaaac ggcttcaaag 240
caccttgaaa agaataggag tgaacagcat tcctggtatt gaagaggta acatctttaa 300
ggatgatgtt gttattcagt ttgtaaatcc taaagtgcaa gcgtcaattg gtgctaatac 360
atgggttgtc agtggaaactc gacagacaaa gaagctgcaa gatctgcttc cgt 413

<210> 13575
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-A4

<400> 13575

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attggagtga acactattcc tgggtattgag gaggtcaaca tcttcaagga tgatattgtt 180
atccaattcc agaaccctaa agtgcaagca tccattcctg caaatacatg ggtagtcagt 240
ggagtacccc agacaaaaag tctacaagac cttctgccaa caattatcaa ccaactgggc 300
cctgataacc tggagaacct caagaggctt gctgagcatt tccagaagca ggtacctggt 360
gccgaagcca gcgccagtgc agctgccca 389

<210> 13576
<211> 415

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-014-Q1-E1-C9

 <400> 13576

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 gttgtgtgcc ctggctgcc aactgtcctc tgccaacca caggaggaaa ggcaaggctc 180
 actgagggct gctctttccg caggaaggga gactagagcg gatgtggtct tcaagttttg 240
 ctctatgcc aatactagcg tcatgaactg cctttagcta agattttcca taagttgttc 300
 tcgagcagct atgtgttgca tgttggttac ttccaaactt atatctgggt tggtttggt 360
 tgtgatgaac taatggctct ttgaatttat attatgatgt tgacgatatt tgggtg 415

<210> 13577
 <211> 419
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-015-Q1-E1-D6

 <400> 13577

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 gcattttccg gggacactga ctgccatcag agactgggtc agagactaca agatacctga 120
 tggaaagcct gccaaacaat ttggtctcgg caacaagccc gcaagcaagg aatacgccct 180
 gaaggtcatt caagagacca acgaatcatg ggagaaattg gtaaagagaa atattcccgc 240
 tggagagctc tcgttggcct gattttggcc catggaagcc accacattct tttgaactgc 300
 tttcgtgagc atgtcgtttt gtatgctgtg accatgcttc ttcgtttgca ttccaaacct 360
 tttttacgaa ctgtttaaca aaaatgatct tgtcggataa ataatgattc tgggtgcgag 419

<210> 13578
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-019-Q1-E1-A7

 <400> 13578

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tctttgtgac accgtcggac tctgttgcca ttatcgagc caatgctgtt caatcaattc 120
cttactttgc ttctggcctg aagggagttg ccaggagcat gccaacatct gctgcccttg 180
atgttggtgc aaagaatttg aaccttaagt tctttgaggt gcctactgga tggaagtttt 240
ttgggaattt gatggatgct ggaatgtgct caatctgtgg tgaagaaagc tttggcactg 300
ggctcgacca cattcgtag aaggatggca tctgggctgt gcttgcattg ctttcaatta 360
ttgctttcaa gaataaggac aaacttggag gagataagct tgtcactgtt gaagatattg 420
t 421

<210> 13579

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-014-Q1-E1-A2

<400> 13579

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gtgaattatg tgctgagacg ggagccaacc aggaggatgc cctcgcgca attgaaaagc 120
tttcagaagt aaaccgatg cttggcttcc gtgggtgcaa gcttgggtata tcgtaccctg 180
aattgacaga gatgcaagcc cgggccattt ttgaagctgc tataacaatg accaaccacg 240
gtgttcaagt gttccagag at 262

<210> 13580

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-B6

<400> 13580

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ggcagctctg gtggctgatg agatagcgga gcaggctgaa ttcttctcct tcggaacgaa 180
cgacctgacg cagatgacct ttgggtacag cagggatgat gtggggaagt tcattcccgt 240

ctatcttgct cagggcatcc tccaacatga ccccttcaag gtcctgaa

288

<210> 13581

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-G7

<400> 13581

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cgaaggcatt ttccgtgcta tggatggact cccggtgacc atccgactcc tggaccctcc 120
cctccagcag ttccttcag aagggaacat cgaggacatt gtaagtgaat tatgtgctga 180
gacgggagcc aaccaggagg atgccctcgc gcgaattgaa aagctttcag aagtaaacc 240
gatgcttggc ttccgtgggt gcaggcttgg tatatcgtac cctgaattga cagagatgca 300
agccccggcc atttttgaag ctgctatagc aattgacaac cagggtgttc aagtgttccc 360
agagata 367

<210> 13582

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-F3

<400> 13582

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tgggaaagtt cattcccgtc tatcttgctc agggcattct ccaacatgac cccttcgagg 180
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ctaggcctaa cttgaagggtg ggcatttctg gagaacacgg tggagagcct tcctctgtgg 300
ccttcttcgc gaaggctggg ctggattatg tttcttg 337

<210> 13583

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-F1

<400> 13583

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tttcagaagt aaacccgatg cttggcttcc gtgggtgcag gcttgggtata tcgtaccctg 120
aattgacaga gatgcaagcc cgggccattt ttgaagctgc tatagcaatg accaaccagg 180
gtgttcaagt gttccagag ataatggttc ctcttgttgg aacaccacag gaactggggc 240
atcaagtgac tcttatccgc caagttgctg agaaagtgtt cgccaatgtg ggcaagacta 300
tcgggtacaa agttggaaca atgattgaga tccccagggc aacctctggt ggc 353

<210> 13584

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-014-Q1-E1-D12

<400> 13584

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agatagcggga gcaggctgaa ttcttctcct tcggaacgaa cgacctgacg cagatgacct 120
ttgggtacag cagggatgat gtgggaaagt tcattcccgt ctatcttctg cagggcattc 180
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gtggagagcc ttctctgtg gccttcttcg cgaaggctgg gctggattac gtttcttctg 360
cccctttcag ggttccga 378

<210> 13585

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-D1

<400> 13585

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aatgtgggca agactatcgg gtacaaagtt gggacaatga ttgagatccc cagggcagct 180
 ctggtggctg atgagatagc ggagcaggct gaagtcttct ccttcggaac gaacgacctg 240
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 gcttagggca tcctccaaga tgaccccttc gaggtcgggtg gccggagggc agtgggcgaa 360
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<210> 13586

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-F9

<400> 13586

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 cttggcttcc gtgggtgcag gcttgggtata tcgtacctg aattgacaga gatgcaagcc 180
 cgggccattt ttgaagctgc tatagcaatg accaaccagg gtgttcaagt gttcccagag 240
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 caagttgctg agaaagtgtt cgccaatgtg ggcaagacta tcgggtacaa agttggaaca 360
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<210> 13587

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-F10

<400> 13587

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 ccgtgggtgc aggcttggtat tatcgtacct tgaattgaca gagatgcaag cccgggccat 180
 ttttgaagct gctatagcaa tgaccaacca ggtgttcaa gtgttcccag agataatggt 240
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tgagaaagtg ttcgccaatg tgggcaagac tatcgggtac aaagttggaa caatgattga 360
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<210> 13588
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-C7

<400> 13588

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gatggactcc cggtgaccat ccgactcctg gaccctcccc tccacgagtt ccttccagaa 180
gggaacatcg aggacattgt aagtgaatta tgtgctgaga cgggagccaa ccaggaggat 240
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aggcttggta tatcgtaccc tgaattgaca gagatgcaag cccgggccat ttttgaagct 360
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g 421

<210> 13589
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-B10

<400> 13589

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aaggtgagtg gctgtcgctg aatgggtcga ctggtgaggt gatccttggg aagcagccgc 180
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gaaagctcaa ggtcctggct aacgccgata cccctgatga tgcattgact gcgcgaaaca 300
atggggcaca aggaattgga ttatgccgga cagagcacat gttctttgct tcagacgaga 360
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441

<210> 13590

<211> 453

<212> DNA

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<223> Clone ID: LIB36-014-Q1-E1-D2

<400> 13590

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gatagcggag caggctgaat tcttctcctt cggaacgaac gacctgacgc agatgacctt 180
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tacagagagg ggccgcaaag ctaggcctaa cttgaagtg ggcatttgctg gagaacacgg 360
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<210> 13591

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-A10

<400> 13591

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ttaaggctgt cacgcagatg attatagctc ccacgcttga gctgaagcat caggcgctcc 180
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ctcccggatga ctatccgaca cctggaccct cccctccacg agttccttcc agaagggaac 300
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gcgcgaat 368

<210> 13592
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<212> DNA
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<223> Clone ID: LIB36-016-Q2-E2-E10

<400> 13592

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caagcccggg ccatttttga agctgctata gcaatgacca accagggtgt tcaagtgttc 180
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atccgccaag ttgctgagaa agtgctgcgc aatgtgggca agactatcgg gtacaaaagt 300
ggaacaatga ttgagatccc cagggcagct ctggtggctg atgagatagc ggagcaggct 360
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gatgtgggga agttcattcg cgtctatcct gct 453

<210> 13593
<211> 464
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB36-016-Q2-E2-C3

<400> 13593

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ccatgtgctg cgcgaagggt agtggtgtgc gctgaatggg tcgactgggt aggtgatact 360
tggaagcag ccgctttccc caccagccct tagtggcgat ctgggaactt tcatggcctg 420
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<210> 13594

<211> 462
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB36-016-Q2-E2-C5

<400> 13594

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tggaaagcag ccgctttccc caccagccct tagtggcgat ctgggaactt tcatgggctg 420
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<210> 13595
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-D12

<400> 13595

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aaacctacag ttctgatcgg gacatctgga gttggaagaa cattcacaaa agaaatcatt 180
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agtggcagtc catttgcccc cgtggagtac gaaggaaaga tttttgtgcc tgggcagtcg 360
aacaatgcct acattttccc tggactcggc ctcggctctg tgatctctgg ggccgtccgt 420
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<210> 13596
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-D7

<400> 13596

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ctcggcctcg gtcttgtgat ctctggagcc gtccgtgtcc acgaggacat gcttctcgcc 180
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gccacgagc tcggtctggc gaccgctctg cctcccccca gcgacctggg gaaatatgca 360
gagaactgca tgtacactca cgtctaccgc aactaccggg agtgctgcgg ggatcaattt 420
tgcagtaat 429

<210> 13597

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-B9

<400> 13597

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ctatcatctt ttactgtca aacccaacct cgcattctga atgcactgct gaacaagcat 180
atacctggag tcagggccgt tcaatctttg ccagtggcag tccatttgcc cccgtggagt 240
acgaaggaaa gacttttgtg cctgggcagt cgaacaatgc ctacattttc cctggactcg 300
gcctcgggtct tgtgatctct ggagccgtcc gtgtccacga ggacatgctt ctcgccgcct 360
cgaaagcgt agctgatcag gccacacagg aaaacttcga gaagggtcc atctttccaa 420
ccttcatcag cat 433

<210> 13598

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-H9

<400> 13598

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tctacattgg actccggcaa aaacgtgcga ctggcgagga gtatgatgag cttattgaag 180
agttcatgtc tgctgttaag caattctatg gtgagaaagt cctcattcag tttgaggact 240
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atgatgatat ccagggcaca gcacagtggt tccttgaggg tttgttagca gcactcaaga 360
tggttggtgg gaccctggca gacgagactt atttgttcct tgggtgctggg gaagctggaa 420
ctggtat 427

<210> 13599

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-D3

<400> 13599

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gagggatttt catgtaacaa ggctgaagga gcaatgtacc ttttcctca gatccatctg 120
ccacataagg caattgaggc tgctaaagct gccaaagaaag cacctgatgc attctatgcg 180
ctccgtctcc ttgaatcaac tggaattggt gtgggttcctg gatctggatt tggccaagtt 240
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tccgtgcg 428

<210> 13600

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-C3

<400> 13600

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 agaccgaaac aaaataaagc tccccctct ctctgtgtct gtgcgtgtgt gtgaactgat 360
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<210> 13601

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-B11

<400> 13601

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 agaaacaact cgaagatgct cggtcaaaag gcattgatgt tagggccttg gtggttatca 180
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 ttgacaacaa gaaatttaac tctttcaaga agattgcaag atccatggga tacggcgagg 360
 atgatctccc tctagtatca tttcagtctg tctccaaagg atactatgga gagtgtggta 420
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<210> 13602

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-D12

<400> 13602

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caggcgagaa ctagaactgg ctgccgcac tgcacacgc ggaagaactt tggccgtgtc 180
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ccaattcttg gggtttctga ggccttttaa gcagagtaga gcgagctgac gctcaatctt 300
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<210> 13603

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-D3

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ggcatagcag aggatatcgt gttcagcatg ccatgcagat tcaagggatga tggatgattac 360
gaactggcta gtgatgtgtt gatggacgat tttct 395

<210> 13604

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-D10

<400> 13604

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caacagttta ctccccggcc ggaccgcgcc tcgtgccggc cctctcggc cgctgccgct 180
ctgccagcc ccgccccc cgccggggcc agctcgccac cgtccggtgc tccgtcgacg 240
ccaccaagca tgcgcaggat ggcgtggcga cggcggtcgc gacggaggcg ccagcgtcgc 300
ggaaggagtg ctccggggtc ttctgcacca cctacgacct caaggcggag gacaagacca 360

agtcgtggaa gaagctagtg aatgttgctg tgtcaggcgc ggccgggatg atatcaaadc 420
acctgttggtt caaactcgct tctggtgagg tttt 454

<210> 13605

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-D5

<400> 13605

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<210> 13606

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-E1

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gtttaatcat cttagcaact acggtacgtg accctgagcg cgtgattgtt gcgaaacaac 180
gaccacctcg gtctacacct taaaggtttg cgcgacatgg cttttcatag tgctcaattg 240
gatctatccc ctgagcatag gagaaaagta tcaatttgta cagtggatcc aagtattcta 300
taaagcatgc atcctccaat ttcccacaag cgagaatggg atgatatgat ggatgaaatg 360
gctgttgccg tcaattgtct ttcaaggatc aattgtcttt caagaaccac acttt 415

<210> 13607
<211> 267
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-E2

<400> 13607

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gcctctttat attcactctt gttgtcaatt ccaagtggaa aatcttggca tattatacat 180
attgtgataa taaacatcgt taaatctgca tgctgttttg taataaataa ttaacatccc 240
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<210> 13608
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-D3

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cggccccctc ggacgtgctc gccgtggagc tctgcagcg cgagtgcggc gtgcgccagc 240
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<210> 13609
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-F6

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 cggcgagcga gtacccgccc ggcttgaag acacgctcat cctcaccatg aatggcatcg 240
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<210> 13610
 <211> 373
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-H1

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<210> 13611
 <211> 283
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-D2

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<210> 13612
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-A5

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<210> 13613
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-A4

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<210> 13614
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-F7

<400> 13614

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<210> 13615

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-D4

<400> 13615

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tcattggacga gatggcggtc gtggccacgg aggagtaccg ctccgtcgtc gtcaaggagc 180
cgcgcttcgt cgagtacttc agatcggcta caccggagac cgagtacggg aggatgaaca 240
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<210> 13616

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-C1

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<210> 13617

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-G4

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 catcctcacc atgaaggga tgcgcccggt catgcagaat actggctagg cggcttctct 180
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<210> 13618

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-A10

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 ccaggtcttc aaagagatgt acaacgagtg gccattcttc agggtcaccc tggacctgct 180

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<210> 13619

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-E3

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 gccattcttc agggtcaccc tggacctgct ggagatggtt ttcgccaagg gagaccccggt 180
 cattgccggc ttgtatgacg agctgcttgt gccggaagaa ctcaagccct ttgggaagca 240
 gctcaggac aaatacgtgg agacacagca gcttctcctc cagatcgctg ggcacaagga 300
 tattcttgaa ggcgatccat tcctgaagca agggctggtg ctgcgcaacc cctacatcac 360
 caccctgaac gtgttccagg cctacacgct gaagcggata aggggaccca acttcaaggt 420
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<210> 13620

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-B9

<400> 13620

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 ttcaagttcg ccatcgacaa ggacgtcagg aacttccagg tcctcaaaga gatgtacaac 120
 gagtggccat tcttcagggt caccctggac ctgctggaga tggttttcgc caaggagac 180
 cccggcattg ccggttcta tgacgagctg cttgtggcgg aagaactcaa gccctttggg 240

aagcagctca gggacaaata cgtggagaca cagcagcttc tcctccagat cgctgggcac 300
aaggatattc ttgaaggcga tccattcctg aagcaggggc tgggtgctgcg caacccctac 360
atcaccaccc tgaacgtgtt ccaggcctac acgctga 397

<210> 13621
<211> 196
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-B4

<400> 13621

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gccgcgcttc gttgagtact tcagatcggc tacaccggag accgagtacg ggaggatgaa 120
catcggcagc cggccagcca agaggacgcc cggcagcggc atcacgaccc tgcgcgccac 180
cccctgaatc ttcccg 196

<210> 13622
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-G4

<400> 13622

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cttctcctcc agatcgctgg gcacaaggat attcttgaag gcgatccatt cctgaagcag 120
gggctggtgc tgcgcaaccc ctacatcacc accctgaacg tgttccaggc ctacacgctg 180
aagcggataa gggaccccaa cttcaagggtg acgccccagc cgccgctgtc caaggagtac 240
gccgacgaga acaagcccgc cggactggtc aagctgaacc cggcgagcga gtacccgccc 300
ggtctggaag acacgctcat cctcaccatg aagggcatcg ccgccggcat gcagaacact 360
ggctaggcgg cttctcttca ctcacctgca gagtgcaccg caataatcag cttccggatg 420
gtggcgtttt gtcagttt 438

<210> 13623
<211> 381

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-013-Q1-E1-B5

 <400> 13623

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 cacctccctg cgctcccat gcaacgacct ctgcaacgca ggtctgaggc agaagcaagt 120
 catcttcgtc accagcaaca ggaggagcgg cggcggcagg aggcacggag gggcaaggag 180
 cttccaggtc tcgtgctccg tcgacaagcc ggtggtgatt ggcttggcgg cagactcagg 240
 gtgcggaag agcaccttca tgcgcgggt caccagcgtc ttcggtggcg ccgcggagcc 300
 gcccaagggc gggaacccgg actccaacac gctcatcagt gacaccacga cagtgatatg 360
 cctcgacgac taccattccc t 381

<210> 13624
 <211> 239
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-008-Q1-E1-F4

 <400> 13624

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 acggcccaga catttacttc ggaaacgagg tatctgtttt ggagatggat gggcagttcg 120
 acagactaga cgagctcatc tacgtggaga gccatctgag caacctctcg accaagttct 180
 acggggaggt gacacagcag atgctgaagc acgaggactt cctggaagca acaacggac 239

<210> 13625
 <211> 376
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB36-001-Q1-E1-G1

 <400> 13625

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 ggacatggca gagcgtgggc acagccttga aagcatcaag gccagtatcg aggccaggaa 120

accagatttt gatgccttta ttgatccgca gaagcagtat gctgatgctg tgattgaagt 180
tctgccgacc cagttgattc ccgacgacaa cgaaggaaag gtgctgctg ttaagctcat 240
catgaaagaa ggggtgaaga acttcaaccc ggtttatctc tttgacgaag gatcgaccat 300
cagctgggtg ccttgtggaa gaaagctcac atgctcttac cctggcatca aattttccta 360
tggcncggac acttac 376

<210> 13626
<211> 458
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB36-014-Q1-E1-D8

<400> 13626

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gtgacacaac aaatgctaaa gcatgcagac ttcccaggta gcaacaacgg gacagggtctc 120
ttccagacca tcattggact gaagattaga gacctctatg aacagattgt tgctgagagg 180
gctggtgtac cagcgggaagc agcaaaagtt taacgatcta tgcattcaga tgtcctaaaa 240
ctacagctct ccgaactcaa tgggagtaac aaccttcgca tctgttggga tatatggcga 300
gctaggaggt atagaaatgt cattgcagaa ctcaggaaaa cgtgcaatgg aatttcttga 360
aatcncctct gaagagagtg agaactcgat agatcaagaa tcaccacacg ttgtattaat 420
cgtatggtat aatatttata catgtacagg atgagcta 458

<210> 13627
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-H11

<400> 13627

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tgagagagag gcgcgcagat ggcgacgccg tcgtcgtcgc tttgctccag cttcgcctcc 120
ctgcggaccg cctccatcgg ccacccccgt ggcacgcct cctccacgcc caggaaggca 180
ttccatgtga gggcatcagc tcgggttgac aaattctcaa agagtgcacat catcgtgtcc 240

ccttcgattc tgtctgcaaa ctttgcgaag cttggtgatc aggtaaaagc tgtggaggtg 300
gcaggatgcg actggattca tgtcgatgtc atggacgggc gctttgtgcc aaacatcaca 360
attggaccct tggttgttga tgctctgcgt ccagtgactg atcttccgtt ggatgtacat 420
ctgatgatg 429

<210> 13628
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-F12

<400> 13628

ccaagtccca cgaggtgctc atcacctggt aggaaggctc catcggcggg ttcggctcgc 60
acgtcgccca gttcatggcc ctggacggcc ttctcgacgg caaactcaag tggcgaccgc 120
tggtgcttcc tgacaggtac atcgaccatg gatcgccggc cgatcagctg gccgaggctg 180
ggctgacgcc gtcacacatc gccgcgtcgg tgttcaacat cctggggcag aacagggagg 240
ctcttgccat catggcagtg ccaaacgcgt agaacttgtg ctgatctggg cctatagaga 300
tgattgtaca ttttgcgtt aactagagtg tctg 334

<210> 13629
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-H10

<400> 13629

cccacgcgtc cgcccacgcg tccggtcttc tgcactccgt gatcaccacc acacctctat 60
cctgctagct aggtagctga attcggagcc agggtcgagc gagggggtgc ggaggcgaga 120
tggaccacgc ggcggacgcg caccggacgg acctgatgac catcacgcgg cacgtgctga 180
acgagcagag ccggaacccc gagtcgcgcg ggcacttcac catccttctc tcccacatcg 240
tcctcggctg caagttcgtc gcctccgccg tcaacaaggc cgggctcgcc cagctgatcg 300
ggctcgccgg cgagaccaac gtgcaggag aggagcagaa gaagctggac gtctgtcca 360
acgaagtgtt cgtcaaggcc ctgcgcagca gcggtcgcac ctgcgtcctt gtgtccgagg 420

aggacgatga agcaacgttc gtggacccta agctgcg 457

<210> 13630

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-010-Q1-E1-C4

<400> 13630

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cagggctcgag cgaggggggtg cggaggcgag atggaccacg cggcggacgc gcaccggacg 120

gacctgatga ccatcacgcg gcacgtgctg aacgagcaga gccggaaccc cgagtcccgc 180

ggcgacttca ccatccttct ctcccacatc gtcctcggct gcaagttcgt cgcctccgcc 240

gtcaacaagg ccgggctcgc ccagctgata gggctcgccg gcgagaccaa cgtgcaagga 300

gaggagcaga agaagctgga cgtcctgtcc aacgaggtgt tcgtcaaggc cctcgtcagc 360

agcggctcga cctgcgtcct tgtgtccgan gangacgang aagcaacgtt cgtggaccct 420

aagctgcgtg gaaggtactg cg 442

<210> 13631

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-A7

<400> 13631

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ggtacgacaa cgagtggggg tacagccaac gcgtggttga tctggcgac ctggtggcgg 120

ccaagtggcc cggcgcgggc gcggccggca gcggcgaccc tctggaggac ttctgcaagg 180

acaaccccgga gaccgacgag tgcaaggtgt acgaagcatg aggccacggt tctttccacg 240

acggaacgta cagcacgggc gcgagggttc tttccataga gaataatata cagattattc 300

gcccaaagag acctatgtta tatatatatg agttgtatgc agtcacccaa ctgggacagg 360

tttccg 366

<210> 13632
 <211> 397
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-021-Q1-E1-H8

 <400> 13632

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 gtcgtcgtga acgacagcgg aggcgtcagg aacgcgtccc acctcctcaa gtacgactcg 120
 atgctcggca ccttcaaggc cgacgtcaag atcgtggagc aactaccat cagcgtcgac 180
 ggcaagccca tcacggctgt ctccagcagg gaccgctca agtcccatg gggtagagtc 240
 ggcatcgaca tcgtcatcga gggcaccgga gtcttcgtcg acggccccgg cgccggcaag 300
 cacatccagg ccggcgcgaa gaaggtgatc atcacggctc cccgccaagg cgccgacatc 360
 ccgacctatg tcgtcggcgt caacgaggcc gactacg 397

<210> 13633
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-001-Q1-E1-A3

 <400> 13633

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 ggctgctgga cgcgtccac cgagacctcc ggcggggccc cgcggcgagg ctgaacatcg 120
 tgccgacgag cacgggcgcc gccaaaggcc tggcgctggt gctgccgcag ctgaagggga 180
 agctgaacgg catcgcgctg cgggtgccga cccgaacgt gtccgtgggtg gacctgggtg 240
 tcaacaccgt gaagactggc atcacggccg acgacgtgaa cgccgcgttc cgcaaggccg 300
 ccgcccggcc gctgcagggc atcctggatg tctgcgacgt gccgctcgtg tccgtcgact 360
 tcaggtgctc cgacgtgttc tgcaacatcg acgcgtcgct caacatggtc atgggcgacg 420
 aca 423

<210> 13634
 <211> 409
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-A6

<400> 13634

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cgcgacctcc ggcgggcccg cgcggcgccg ctgaagatcg tgccgacgag cacgggccc 120

gccaaggccg tggcgctggt gctgccgcag ctgaagggga agctgaacgg catcgcgctg 180

cgggtgccga cccgaacgt gtccgtggtg gacctggtga tcaacaccgt gaagactggc 240

atcacggtcg acgacgtgaa cgcggcgctt cgcaaggcca ccgccggccc gctgcagggc 300

atcctggatg tctgcgacgt gccgctcgtg tccgtcgact tcaggtgctc cgacgtgtcc 360

tgcaccatcg acgctcgtc cagcatggtc atgggcgact acatgggtca 409

<210> 13635

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-B1

<400> 13635

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cccctcgacg tcatcgccat caacgacacc ggcgggtgtca agcaggcgtc ccacctgctc 120

aagtacgact ccacgctcgg catcttcgac gccgacgtca agcccgtcgg cgacaacgcc 180

atctccgtcg acggcaaggt catcaaggtc gtgtccgacc gcaaccccag caacctgccg 240

tggggcgagc tcgggatcga cctcgtcac gagggcaccg gcgtcttcgt cgaccgcgag 300

ggcgcgggga agcacatcca ggcggaggcc aagaacgtgc tcatcacggc gcccggaag 360

ggcgacatcc cca 373

<210> 13636

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-H3

<400> 13636

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gagttctccg ggctcaggag ctccgcgtcg ctgcccatgc gccggaatgc cacctccgac 120
gacttcatgt ccgccgtctc cttcaggacc cacgcggtcg gcacgagcgg cgggtcgcgg 180
cgggcgccga cggaggcgaa gctgaagggtg gccatcaacg ggttcggccg catcgggcgc 240
aacttctcgc ggtgctggca cgggcgcggc gacgcctcgc ccctcgacgt catcgccatc 300
aacgacaccg gcggtgtcaa gcaggcgteg cacctgtctc agtacgactc cacgctcggg 360
atcttcgacg ccgacg 376

<210> 13637

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-C7

<400> 13637

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gacttcatgt ccgccgtctc cttcaggacc cacgcggtct gcacgagcgg cgggtcgcgg 180
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aacgacaccg gcggtgtcaa gcaggcgtec cacgtgtctc agtacgactc cacgctcggc 360
atcttcgacg ccgacgtcaa gcccgtcggc gacaacgcc tctccg 406

<210> 13638

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-D9

<400> 13638

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aaatctgacc aaagtgggtt ctgctgactg ttttttgttt ttttggggtc tctcgatctt 120
ctctggatgc aggcaagatt aagatcggaa tcaacggctt cggaaggatc ggcaggctcg 180

tggccagggt cgccctccag agcgaggatg tgcagctcgt cgccgtcaac gaccccttca 240
tcaccacgga ctacatgacc tacatgttca agtacgacac cgtccacggc cactggaagc 300
acagcgacat cacactcaag gactccaaga cccttctctt cggtgacaag ccggtcaccg 360
tc 362

<210> 13639

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-G10

<400> 13639

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gacaccgtgc acggccaatg gaagcacagc gacatcaccc tcaaggactc caagacgctt 180
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ggtgaggctg gtgctgagta tgcgtggag tccaccgggtg tcttactga caaggacaag 300
gctgctgcac atctgaaggg tggtgccaaa aagggtgtta tctctgcccc aagcaaagat 360
ggcaccatgt ttgttggttg tgtcaatg 388

<210> 13640

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-B4

<400> 13640

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ttttagatat aatgtctcta gttgttggtg tattttgcta agaaccacct ccgacgtggg 180
gaagtatagc ggtggaaaat attatttata aattgcaatg atcaactaga gacgttaaatt 240
ctaaaataaa tagtgatgat ttaatatgtg caccatatat actaagcttc gatgtacacc 300
agatatgtcc tcgttattac atgtacacga ggtatgatat gcattccatg ttttcgtggg 360

ggtttcgatt gag

373

<210> 13641

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-A4

<400> 13641

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cttcagtttc ttttctcagt tgtggtttat cgcgccgggg ttgatgttga gatttgagat 180
cctcacctga ggaatggaaa aatgctcacc tgaggaatgg aaaaatggta agggcttgtt 240
cggttattcc tatcccatgt ggattggatg ggattggaaa aaattatgaa agattttaac 300
ttgtttgaga ttgaaatcca tccaatccca cctataaatg aaagtcaaaa ttt 353

<210> 13642

<211> 265

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-F8

<400> 13642

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gtggcttctc atacagtggc cagagggtgca ctgctgtcaa agtactgctg atcatggaat 180
cgattgctga tgctgtggta cagaaggtta atgccaattt ggcgaaactg aaagttggcc 240
cacctgagga cgactctgat atcac 265

<210> 13643

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-H5

<400> 13643

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 gccttctgtt gcaggggttc ttctgcagaa ggaactcgac taccttgctg gagctgtttc 180
 aagccctaaa cgcccttttg ctgccatcgt ggggtggttca aagggtgcat ccaagatcgg 240
 gggtattgag tccctgttgg agaagtgtga tatecttctc ttgggtggtg gtatgatctt 300
 cacgttttac aaggcacaag gtctccctgt tgggtgcttca ttgggtcgagg aagacagacg 360
 cgagcttgcg acgtctctcc ttgcacaggc taaggaaaag ggcctctccc ttatggcgcc 420
 aactgatgtt 430

<210> 13644

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-D8

<400> 13644

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 gaccgagggg gttaccaagt ttttgcagcc ttctgttgca gggttccttc tgcagaagga 300
 actcgactac cttgtcggag ctgtttcaag ccctaaacgc ctttttgctg ccatccgtgg 360
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<210> 13645

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-G7

<400> 13645

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catccaagat cgggggttatt gaatccttgt tggagaagtg tgatatacctt ctcttgggtg 180
 gtggatgat cttcacatth tacaaggcac aaggctcttc tgtegggtgct tcgttgggtg 240
 aggaagacaa actcgatctt gcaacatctc tacttgcaaa ggctaaggaa aagggtgtct 300
 cccttatgtt gccaacccgat gttgtcatcg ctgataagtt tgctcctgat gctaacagcc 360
 agattgttcc agcatctgca attcctgatg gttggatggg gctggatatt ggg 413

<210> 13646

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-E7

<400> 13646

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 caaccgccgt cgccccgttc cagggtctca agtcgcgcgc cagcctcccc gtcgcccgcc 180
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 ggccggccta cggcaacaag aagttcgaga cgctgtcgta cctgccgccg ctgtcgacgg 300
 acgacctgct gaagcacgtg gactacctgc tgcgcaacgg ctggataacc tgctcagagt 360
 tcaacaagct cgggttcgtg taccgcgaaa actccaacct ccccgctgcta ctacgacggc 420
 cgctaact 428

<210> 13647

<211> 197

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-F4

<400> 13647

gcagcgagta catacact aggcagccag gcagccatgg cgcccaccgt gatgatggcc 60
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 gcccgccgct cctccagaag cctcggaaac gtcagcaacg gcggaaggat ccggtgcatg 180
 caagtgtggc cggccta 197

<210> 13648
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-C10

<400> 13648

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gacctgggct agatcgaccc atggccatgc ctctgcctgt tgatcggatc accttcttgc  180
attggttcct ctctctctct ccttcctttt ttttcccttt atctcatcat ttcttttctc  240
ctgcatgcaa tggttccttt tgcttccaac aattctcctg ctgatgtatc cagcatggca  300
tcatccatct acaattacgt acgtagtga acgactgtcg attcgttggg tgaggaacat  360
atatgtgaat gcaagctccg gctaccatac atgtgtaatg tgtaatagat atatatacaa  420
aactgccgag gggc                                     434
  
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<210> 13649
 <211> 383
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-B4

<400> 13649

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ccatcgccgc gtaccgggac gccttccacc gcgtcatcgg cttcgacaac gtcaggcaga  120
cgcagtgcgt cagcttcacg gcctacaagc cccccggcag cgagtagaga ccgtggctag  180
atcgacccat ggccatgcct ctgcctgttg atcggatcac cttcttgcac tggttcctct  240
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gttccttttg cttccaacaa ttctcctgct gatgtatcca gcatggcatc atccatccac  360
aaatacgtac gtagtgcacc gac                                     383
  
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<210> 13650
 <211> 347
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-D2

<400> 13650

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ctagatcgac ccatggccat gcctctgcct gttgatcgga tcaccttctt gcattgggttc 180
ctctctctct ctccctcctt ttttttccct ttatctcatc atttcttttc tcctgcatgc 240
aatggttcct ttgcttcca acaagtctcc tgctgatgta tccagcatgg catcatccat 300
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<210> 13651

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-A6

<400> 13651

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gtctcaagtc cgccgccagc ctccccgtcg cccgccgcag caccaggagc ctcggaacg 180
tcagcaatgg cggaaggatc cgggtgcatgc aggtgtggcc ggcctacggc aacaagaagt 240
tcgagacgct gtcgtacctg ccgccgctgt cgacggacga cctgctgaag caggtggact 300
acctgctgcg caacggctgg ataccctgcc tcgagttcag caagctcggg ttcgtgtacc 360
gcgagaactc tagctccccg tgctactacg acggccgcta ctggaccatg tggaagctgc 420
ccatg 425

<210> 13652

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-E6

<400> 13652

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 cgttccaggg tctcaagtcc gccgccagcc tccccgtcgc ccgccgcagc accaggagcc 180
 tcggcaacgt cagcaacggc ggaaggatcc ggtgcatgca ggtgtggccg gcctacggca 240
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 atgtggacta cctgctgccc aacggctgga taccctgcct cgagttcagc aagctcgggt 360
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<210> 13653

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-E10

<400> 13653

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 ggtctcaagt ccgccgccag cctccccgtc gcccgccgca gcaccaggag cctcggcaac 180
 gtcagcaacg gcggaaggat ccggtgcatg caggtgtggc cggcctacgg caacaagaag 240
 ttcgagacgc tgtcgtacct gccgccgtg tcgacggacg acctgctgaa gcaggtggac 300
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<210> 13654

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-014-Q1-E1-H9

<400> 13654

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tgctgaagca ggtggactac ctgctgcgca acggctggat accctgcctc gagttcagca 180
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 tgcaggaggc catcaaatac taccgggacg ccttcaccg cgtcatcggc ttcgacaaca 360
 tcaagcagac gcagtgcgtc agcttcacgc cctacaagcc cccgggcagc gactagaccg 420
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<210> 13655

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-D2

<400> 13655

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 gctccccat cgcccgccgc tcctccagaa gctcggcaa cgtcagcaac ggcggaagga 180
 tccggtgcat gcaggtgtgg ccggcctacg gcaacaagaa gtctgagacg ctgtcgtacc 240
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 ggataccctg cctcgagttc agcaaggctg gcttcgtgta ccgcgagaac tccacctccc 360
 cgtgctacta cgacggccgc tactggacca tgtggaagct gcccatgttc ggctgcaacg 420
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<210> 13656

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-E1

<400> 13656

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 gggttctgtt actaatgt ttacttccat tgtgggtaac gtatttggtt tcaaagcctt 120
 acgcgctcta cgtttgagg atctacgaat tccccctgct tattcaaaaa cttccaagg 180

tccgcctcac ggtatccaag ttgaaagggga taagttgaac aagtacggtc gtcctttatt 240
 gggatgtact attaaaccaa aattgggatt atccgcaaaa aattacggtg gagcgtgtta 300
 tgagtgtcta cgcggtggac ttgattttac caaaggatgg tgagaacgtg aactcacagc 360
 catttatgcc ccgggagaga ccgttttggg ctttgtgccg aagcaatttc aaaagcacia 420
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<210> 13657

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-A11

<400> 13657

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<210> 13658

<211> 394

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-001-Q1-E1-A2

<400> 13658

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 ttcccccgct cctcgccac acgctccgct ccgattccgc ccgcgtccgc ggaccagat 180
 ccggcgcccc cgcccatggc gacgcgcagg cgaatgttcc tcaaggatcat catcctcggc 240
 gacagcgggg tcggcaagac ctcgctgatg aaccagtacg tcaacaacag gttcagcaac 300
 cagtacaagg ccaccatcgg cgcggatttc ctaccaagg aggtccagat cgacgaccgc 360

ctcttcacac tgcagatatg ggatacggca ggac

394

<210> 13659

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<212> DNA

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<223> Clone ID: LIB36-001-Q1-E1-A4

<400> 13659

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cttcacagcag ctgagcacgc cgtccctccc tatttcagct cgcctctgtc cgccatggtc 120
cgaccagaga caccacgctc gagctccctc acacgcacgc tcagttccag ctgcgcagtc 180
aaattctctg cgtcgcgccc agctcggatt tcgcccggcca ccgttctcta acccgtgtgc 240
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attcgtcgtc gcaccgttcg ccgtcgagtt tcgctacca tcgcggagtt ctctgctcgc 360
cacaacgtgt cgaacttccg cgtcaaactt atctcttccg ttgccggtgt cctccccgga 420
gccgaatcct gggcgtccta gtatttttag ctat 454

<210> 13660

<211> 179

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-A5

<400> 13660

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tcggccgcca cggaggcggc ttcaaccagc acttcttcaa ggacaagttc gaggaggtca 120
acacggtctc acccccggg gcaaaccacc acaaccacca caatggtcac caacggcgg 179

<210> 13661

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-001-Q1-E1-A6

<400> 13661

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gttttgaggg caacaccgga attattgtta ttgctgccac taaccgagct gacatcttgg 120
attccgcttt acttagacct gggcgctttg acagacaggt gtctgttgat gttcctgatg 180
tacgtggaag gacagagatt ctaaaagtgc atgggtggcaa caagaaattt gattctgatg 240
tttctctcga tgtcatagca atgagaacac ctgggttcag tggagcagac ttggcaaacc 300
ttctgaatga agcagccatt ctggctggac ggcggnggaa gacagcaatt tcttcaaaag 360
agatagatga ttctattgac agaattgtgg ctggatgga agggactgtg atgacagacg 420
ggaag 425

<210> 13662

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-A7

<400> 13662

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gctcttcgtc ttcaacatgg cgctcatggg cttcgccgag caccgccgcc tctaggactg 180
gtacaaccct ggctccatgg gcaagcagta cttcctcggc ctcgagaagt tcctcgcccg 240
ctccggcgac gcgtcctacc ccggtggggc cctcttcaac tcgctcgatg ttcggcaaga 300
cctagaagga catgaatgag ctcaagctca acgagatcaa gaacggcatg ctcgccatgc 360
tctgcatcct cggttacttc atccaaaggc tcgtc 395

<210> 13663

<211> 279

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-A9

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ataccgttac cgtgtcgcca tggccgccac cgcgtctcta tcagccgtcg gggcgccgct 120
 gtcggtgccc gggctcagga agccgctcgg cgtgtcgtcg ctccggcccc tgcagccgag 180
 ggcggcgagg atgacgacga cggccgtgcg ggcgtcggcg tcgccctcgt ccacgtccat 240
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<210> 13664

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-B1

<400> 13664

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 gcgcgcgggc tttccggcca tgccccactc ggctgctggg gagcagccct tgcgcccccc 240
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 ccgtgggccc tcgcggtctg gggctcgggc tgctgccagc ctgcgccgat ctggatggca 360
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<210> 13665

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-B12

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 ggaggcaaca agcggcggcg gcatggaccg gaacctgagc gggtttctga tcgggtgcct 120
 gggcgccgcc gtgacgctgc tggcgtagca gcagacgggtg gtgaccagca cgcagagcgt 180
 cgcggcgggc ttcgtcgtca tcctcttcgc cctcttcgtc aaggaaggat tcatttcctt 240
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 gtatttctgc tcgctagtgc agtcccgcag ctgccgctgt gctcgtcagg ttcttgga 360

aatactgtaa tagcgtagtg acttttatgt acgacacgga tggttggtgc tggctg 416

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<212> DNA

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<400> 13666

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caccaatccg ggaacttaaa cttggtgtag ggggcacgtc ttatgaagac ttcacccgca 120

gcgttcacat gccgatgcag ttgagccagg tagatcccat tgtggcatct ttctcaggcg 180

gagcagttgg agttatctct gccctaattg ttgttgagat aaacaatgac aagcagcagg 240

agcttaagcg gtgcaaatac tgtttaggaa ctggatacct ggcattgtgc cgctgttcaa 300

gtacggggcg tcttggtgac acagagcctg tttcaacatt cagtgatggc gatcagcctt 360

tatccgcacc aaagacagag agatgctcga attgctcagg gtcgggaaat gtgatgtgac 420

caacatgcct ctgcactggg attgaaatgg aaggcgagca tgaccc 466

<210> 13667

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-B5

<400> 13667

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ggcagctcat gcaactgcat gtcccctgac gtggagaccg ccgccgccag cagcatcaag 180

accatggctc tcgctgcgcc gaccaccaag gccagcgcgc gcggcttcga ggccggccacc 240

gagggcgggc gctgcgactg caacacctgc aactgcggca ccagctgcgg ctgctcctgc 300

tcgagctgca actgagccgg cccgccggc ccggcgatgg cgcacgagag tcgagaggac 360

gacgacgacg aggcgtataa atataatagc agcgtctaaa taggatctgt caactgcac 419

<210> 13668

<211> 433
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB36-001-Q1-E1-B6

<400> 13668

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gctgcgcacg cactgctgcg tggagcccta catcatcgcc gccaaaccggc agctgagccg 180
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caagtacgcc gtcgagctca gctccgtggc gtacggcgcg acgtggcagt tcgacacgga 360
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ggagctcaac atc 433

<210> 13669
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-B9

<400> 13669

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acggtggtgt atctgtgctc tcggtttgcg tgaacctgat ctggtcttaa gaaccccggt 180
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<210> 13670
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-C11

<400> 13670

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cactagaact ggttggctct gcctatagaa caatggactc atttgttggg gtgcgagaga 420
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<210> 13671

<211> 440

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-001-Q1-E1-C3

<400> 13671

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ccatggcagt cggaagaac aagaggatct ccaagggaaa gaagggtggt aagaaaaaga 120
ccgtcgatcc cttctctaag aaggactggt atgacatcaa ggccccatcg gtcttcagt 180
tgcgcaacat tgggaagact ctggtgtcca ggacacaggg taccaggatt gcctctgatg 240
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tctggggcat gaattttaca ccgataagct cagatctcta gtaaagaagt ggcagacatt 420
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<210> 13672

<211> 99

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-C4

<400> 13672

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<210> 13673

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-C5

<400> 13673

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cagcctcaac gcactgcgcc tgcgcgcgt gttcgacctc ttcgaccgca acggcgacgg 240
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cgacgacttc gaatccctcc accgcgcgt cggggacgcg ctgttcggcc catgccggtg 420
gctgtgaccg aggacgacga cga 443

<210> 13674

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-C6

<400> 13674

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gtccgcctct ttctccagcg tggcgcgggg gctcccctcc ctccgcctgg ccccgccccg 180
ccgccgcgcg ggggacctcg ccaggccccg ccgccgcggc gaggccgcgg cggagagcta 240
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cctcgagaag ctggagaaga tcttctccga cgaggccgtc gccgagttct tcgacaaccc 360
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<210> 13675

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-C7

<400> 13675

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 tcggcaagcc ggcgaccagc accagggacg tcttcggcga cgggcgcac accatgcacg 180
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 gtgactacgg ctgggacacc gcggggctgt ccgccgaccc ggacactttc gccaagagcg 360
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<210> 13676

<211> 117

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-C8

<400> 13676

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<210> 13677

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-D2

<400> 13677

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 aggtcctatg gctacaccta ttggaaaggg tcatcgatct ttgaatctta cattaaggaa 180
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 tgagcatcac gttgtgagag gtgttgtaga aagtttgaaa attattaccc gccaaagcaag 360
 tttgagagtg gcagaatatg ccttttcatt atgccaacgc caatggccgg gaaaggggtct 420
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<210> 13678

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-D4

<400> 13678

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 aagccggcgg ctggcacgag ggagctcttc ggcgagggcc gcatcaccat gcgcaagacc 180
 gccgccaagc ccaagccggc ggcgtccggc agcccatggt acggtgccga ccgctgcctg 240
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 tacgggtggg acaccgcggg gctgtcggcg gaccgggaga ctttcgcaa gaatcgcgag 360
 ctggaggtga tccactgccg ctggggccatg ctgggcgcgc tcgggtgcgt gttcccgag 420
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<210> 13679

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-001-Q1-E1-D6

<400> 13679

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gcgaggggat ggcgtcgttc gccgtggcaa cggccccgtc gctagcggcc ccggcagcca 120
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agggggtcaa caaggtgacc atgctcgggg tgcgcaagac cgccgactac tccttcgcca 240
agggtcgtggc gtcggtcagc cccgcgggca ggaagcggcg cggcggggcg ttcggcgccc 300
agatgaacgc cgccgccgag atcttcagga tcgccgccac catgagcggc ctctgtgctcg 360
tcggcgctgc cgtcggcttc gtgctgctcc ggggtggaggc cgccgtcgan gaggccgagt 420
agggcgctcg cgc 433

<210> 13680

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-D7

<400> 13680

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cgtcgaggag aagctgctgg cgtcaagcc caagggcctc gacttcgcgc aggccgccag 180
cctgccgcta gccgtcgaga ccgccaacga gggcctggag agggcaggaa tatccgccgg 240
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gaagcatgtc tacggcgcggt ccaaggtagc tgcgacgggc cagcacaaga agatcgagct 360
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<210> 13681

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-E10

<400> 13681

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ggcgatgaag acccctgagg atcaaatgtt caatttcgac cctaagacca tcgactggga 180

cgattacttc accagaatcc acatccctgg tattctcaag tatgtgtgca agtgaaacct 240
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gttaatggct catattcttt atgaaagaaa ttataccac tctgtttggt tgtacctggt 360
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<210> 13682

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-E4

<400> 13682

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ggcggccagg cagctgacgg ggcgggtggt gacgaccaag gcggaacaaga cggtcgggggt 180
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gtaccaggcg cagcaccgcg acaaccagtt caaggctggc gacgtcgtcg agtccaacc 300
ctcccgctcc atctccaaga ccaagcactt cctcgccatc ccgctccgcg cccgcgacac 360
tcgcccgaag tctcagctcc ttacgccgct ccagtccgac gacgaccagg agccgtcctc 420
gccagagtga ttgattgtga 440

<210> 13683

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-E5

<400> 13683

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gactggagat gaaggggaacc cacatcctga ctatggccat ctacaccag cagagcgacg 120
ctacatggaa cagaagcaga agatcgacat gcagaagatg gccaaagtcg ccaacaagtc 180
gcatagagac cgcattcaag acttcaatca gtatctcgca aacctaagcg agcactacga 240
catccccaaa gttggccctg gctaacatag ccaaactggc tgtgttacgc acaacaattg 300

tgtgctgggt ctatccattt atgtagcat gttacgtatc gtttaaaacg a 351

<210> 13684

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-E7

<400> 13684

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gggctatgta caaagggttaa aagatgaaca aggggaaggt tgtaccatcc atggatttgt 120

aaatgtgaat aaagtagctg gcaactttca ctttgcccc gggaaaagct tggaccagtc 180

attcaacttc ctgcaagacc tattgaacct ccaaccagaa acttacaata taagccacaa 240

gataaataag ctgtcctttg gggaagaggtt cccaggtgta gtcaatcctc ttgatggagt 300

tgagtggata caggataact ccaatggatt aacggggatg taccagtatt ttgtaaatgt 360

tgttccaaca gtctacacag atat 384

<210> 13685

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-E8

<400> 13685

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tcatgggctt cgccgagcac cgccgcctcc aggactggta caaccggggc tccatgggca 120

agcagtactt cctcggcctc gagaagttcc tcgccggctc cggcgacccg tcctaccccg 180

gcggggccct cttcaaccgc ctcgggttcg gcaagaccga gaaggagatg aatgagctca 240

agctcaagga gatcaagaac ggcaggctcg ccatgctcgc catcctcggg tacttcatcc 300

aggggctcgt caccggcgtc ggcccgttcc agaacctgct cgaccacctc gccgaccccg 360

tcaacaacaa cgtgctcacc agcctcaagt tccactagaa cgtggtgcat caggcatact 420

gctgctgccg ccgccg 436

<210> 13686

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-F1

<400> 13686

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tgctgtggag atggcgccgt tatgaactca accaatctag ggctgctgag gcatgggtgc 300
tccatttggg ttgatgttcc tcttgaaatg gcagcaaatg acatgttgaa gagcactgga 360
acacaagcta ctacagatcc agactctttt 390

<210> 13687

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-F10

<400> 13687

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gtactactgc tcgttcccgt tcctggacac gggaggcctg gtgaccgtcg acgacagccg 180
cgtcggcccc ctgtacgagc acacgttccc gccggcgctg gcgcgcgtcg tgctcttcgt 240
ggggttgccg aagatgggtg tgggtgccgc gttctacgag gcgcacgcga agtgggtggc 300
gcacgcgctg tcaggct 317

<210> 13688

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-F2

<400> 13688

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 cacgtctggc cccaggatta tgaaccctaa cgccccagag ttgtttccag gtcaatctcg 120
 gagtcctaata ggccatccag catctccaaa tggtccttta gcatctccag gtggtattcc 180
 atcttcacca caggaccttc tatcctctcc agatagtacc ttggaatcac cagtaactgc 240
 atccccacaa gtttctgaat gtagccagat tagtcctgaa ggagatgttg aggggtggggg 300
 tgtaaagcag aacatggatg acacgaacca cccagaaagt aaagatgggtg aagtggagcc 360
 tgagcaaacc aaagctcctg aaagtacaca acaaagtgca gtggtaaaag atgctgctg 419

<210> 13689

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-F4

<400> 13689

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 aggtgcagta cctccacccc aaggacggcg tctaccggga gaagggtcaac cccggcaggg 180
 agggcgctcg ccagaacttc cgcagcatcg gcaagaacgt caaccccatc gacgtcaagt 240
 tcaccggcaa ggccaccttc gactaatcac acttcacgta cgccgcacgc cccagccggg 300
 atccaaatta aagaacttct tcttctatta attacagtat attgtaattt ggctgctggg 360
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<210> 13690

<211> 159

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-F6

<400> 13690

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 ttggccgca agaagaccgc ttagccgctc gtctacaaca agccagggcg ccggctgac 120
 aatgtgaatg gcgtcccgat tgagctcagc acgccggag 159

<210> 13691

<211> 421

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-001-Q1-E1-F7

<400> 13691

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ttagcgggca ggaggctgct gctgctgcgg tgggcaccgt cgacgtgacg ggcgaagggt 180

tcaagggcac attggtggac tgggtttatc agctcaaggc ctctggccgg atcgggtgatg 240

ctgtcgacaa acttttgcgc gggaagggcc acgaggcaga gatcgaggag ttcttgaagg 300

tagcctttgc gtgcaccag cctcgcgtga gggagaggca ctccatgtac cgggtctacc 360

acgccctgaa gagcatcnga gaaggccgcg acgccacgga gcagttcgac gagttccgcg 420

t 421

<210> 13692

<211> 114

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-F8

<400> 13692

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tgtggccggc atcagctacc gctgggttcgt ggcgtaccac gtggcccggc tgct 114

<210> 13693

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-F9

<400> 13693

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 aagaaccac tcaagaacat ggctgctgtg ctcaaactca acccctacct gggcactgcc 360
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<210> 13694

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-001-Q1-E1-G10

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 ttaacatcac cctgggtgct gaggatgaac tgaaggatgc tgttggtctg gttcgcccag 180
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<210> 13695

<211> 391

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-001-Q1-E1-G12

<400> 13695

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ctgccaggtc gtgctcatgg gcgccgtcga gggctaccgc atcgccggcg gcccgctcgg 180
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ccccgaggcc ttcgctgagc tcaagggtgaa ggagctcaag aacggccgcc tcgccatgtt 300
ctccatgttc ggattcttcg tccaggccat cgtcaccggg aagggcccg ctcgagaacct 360
cgcntgacac attgccgacc ccgtcaacaa c 391

<210> 13696

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-G7

<400> 13696

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agacgagcac cgccgcgcag gccaccgtcg tcctcggcgt ggccccggag aagaaggccg 180
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<210> 13697

<211> 225

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-G8

<400> 13697

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gacgtcttcg atttctcgt cgacatcgtg ccccgcgagg aggccaagga ggagcccggc 180
agcgccctcg gcttcgcggc gcccgggacc ggcgtcgtcg gggct 225

<210> 13698
 <211> 367
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-G9

<400> 13698

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tggtggtt                                     367

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<210> 13699
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-H12

<400> 13699

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accgtcgtcg cccccaagta tacaacactt aagcccttgg ctgatagagt gcttgtaaag   180
attaactttt ccgagaagaa gacaactggt ggaatcttgc tccctacgac tgctcagtc   240
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gttgatgtca gcattcaggt tggagctcaa gttgtgtatt ctaagtacgc tggaaccgag   360
gtcgcgttga acgatcacag ccactctggt ctcaaagagg atgacgttat aggtatctta   420
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<210> 13700
 <211> 455
 <212> DNA

<213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB36-001-Q1-E1-H2
 <400> 13700

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 ggtactacaa ccagggcccc taccctgacc agggcccgcc ggtgatggcg ccgccgcagt 240
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<210> 13701
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-H3
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<210> 13702
 <211> 288
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-H5

<400> 13702

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atcgttatca cctaaataac cagtcaagtc gcaagtatga atggactttt gaggaccatt 180
gtgccctgtt gaactcatgt attaccttgt gaagtccgtt gtgtctggtt tctacctgac 240
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<210> 13703

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-H7

<400> 13703

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gtggccaccg gccgcgcgcg gcgcggcgcg gggcccattc gcgcgtccat gtccatgtcc 180
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ggcgggcagc tggtt 434

<210> 13704

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-H8

<400> 13704

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atggcaagga agtcgatggg agccgtatta gtgttgaatt tgctaaaaga gttcctcgtg 180
 gttctggtgg ttcacgtgag tacatgggaa taggacctcc accaagaaca ggtcgttggt 240
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 tatgctaccg ctgtggtgaa tcggggccata tatatagaaa ttgccagatc agtccagaga 360
 atctcatgcg tgataaaagc tagtcacagt ctccatcgcc acgtgggtgga ccttggcgca 420
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<210> 13705

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-H9

<400> 13705

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 ggggagatga gtgcaactgc ccgcaacatg aatgttcagc acatgagcaa ggtccttctt 180
 ccgcagatgc ttaaacagat tgggtggcatg ggcgggtctgc agtctctgat gaaacagatg 240
 ggatcgaagg agatgagcgg aatgtttgga ggcattgggtg gcgagcggta attttacgtc 300
 ctgttttttg tggatcgtcg ctgtgaactt gtgatgctaa attgagaggg tttagtgtcg 360
 cggctctgatc atcgtcagag gtttacatga agatcagcct gcgccatggt atggaacagg 420
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<210> 13706

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-A1

<400> 13706

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 ttgctggccc gtatgaagct tgttccgtat tcattcctata gctcccagta taaacagcga 120
 acattcatga tgaagtgggt gctaaagagg actctactcc aatgcctgct catcaactgg 180

gtggatccat ctaactgggg tttaagagag ggatttagac ctccgtctca gcaacaaagg 240
 tgttgacgag tactcaaagt gattcggacg ctggactgca attccagtac tgggggagga 300
 ttaattatgc gtgtgtataa gctttggacg gttcctacct tccggctagt gtcataagtt 360
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<210> 13707

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-A10

<400> 13707

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 gttctccac ctgcctatgg ctcgacgctc cttaggagtt gctggcccgat atgaagcttg 180
 ttccgtaatc atctcagagc tcccaaaata aagagcgaag attcaagatg aagtgggttg 240
 taaagaggac tctactcaa tgctgctca tcaagtggat ggagccatct aactgggggtt 300
 taatagaggg atttagacct ccgtctccgc aacaagggtg ttgaggagta ctcaaagtga 360
 ttcggaggct ggacggcatt tccagtactg ggggaggatt agttaggctt gtgtataagc 420
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<210> 13708

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-A11

<400> 13708

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 ctgcccagag gctaagccat cggcggctac atcttcgtct gcaacaacga gaccatggaa 180
 gacaacctca agatgccgat cttcgggctg ccgtccaggt acatggattc tgtgagggtc 240
 atcaggcccc gcctgcccc cttcctctac aactactcca cccatcatct ccacgggac 300

tttgatgctg caagcttcgg aggattcaac atcgatccag cagcttggga ggacaagatg 360
 ttccccggcg agtcccactt cctgtctcat ggtaggggtg caactcccaa gatattttca 420
 ccgct 425

<210> 13709

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-A2

<400> 13709

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 agctattgcc aactttttct ataactgcc tgataatact ttccaaattg ctatggctgg 180
 aaggtcattc tcacttctgc agaggattgg agcttttgtg aggaatggta taaagctttt 240
 ggcagtggga actactgctt ctttgattgg cactagtgtc acgaatgcag cgctcaaagc 300
 aaagagggct gttgataagg accttgagga cgaagtcacg gaaattccag tcgtctcaac 360
 tagtgttgcc tatggtgtat acatgtcc 388

<210> 13710

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-A6

<400> 13710

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 ctgcgagcac attcctgggc acccgcttg cggacccggc gccacagaac gggcgcatcg 120
 tggcccggtt cgggttcggg ttggggcgga aggcgaagcc tgctccgaag aacgtggcga 180
 atacatcgac ctccctctgac cggccgctgt ggttccccgg cgccgtggcg cccgactacc 240
 tgtacggctc gctggtcagc gactacaggt tcgaccggtt cggtcgcggg aagcccctgg 300
 agtacctgca gttcaagttg gacgcgct 328

<210> 13711
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-A7

<400> 13711

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ggacggggac gcgcccggcg gcgaaggcct ggccctggcc cagttcgccg cgggctgctt 180
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cgccgaggtg gtccgcgtgc actacgaccc caatgcctgc ccctaagacg tcctcctcga 360
cgtcttctgg gccaggcata accccaccac gctcaccaga catggcaacc gagtcgggac 420
gcaagtccgg tcgggtatct ac 442

<210> 13712
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-A8

<400> 13712

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gaggtcgccc tttgtgtgtc gatatatatg gcgaggtcgc cgtttgttcc gatggatcag 120
gggaaagagc aaggcgccgg acgaggagcg gccggcaata ataaggagcg gcagcagcag 180
gagcaggagc aggacgaggt gctgctggtg cacagccaag tgccggcgat caagaaggac 240
gacgaagagg ccttcagggg gcgcctcctg aagctgcgcc tgctggagac ccggcccagc 300
gccggcagcc tggcctggcg agcgcgcgcg tccctgtcgc cgctccgccc tgccggcaaa 360
gccatc 366

<210> 13713
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-A9

<400> 13713

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cggccacggc ttcgtggtgc gcgagaccag cgtcgaggag gacatcaaca cctgcatcgg 180
cgaggccac gagcgcagg agagcttctt cgccacgggt aactgagccg ccctgcggtc 240
ggcatccacg ccggttcgtg cctgcctgct tgccttatgt atgtctgtgg ttgactgggt 300
gtgcatggtc atcctacttg gctatcgtac gtgcacgcac tcagctcctg tgccaattac 360
gacaataagc tcgtgacctg aataatactt cttcgtaata ctaatacct 409

<210> 13714

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-B1

<400> 13714

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gcaagtggat cctcgcgtac acatcatttt cccaactatt ccactattg gggtttggtg 120
atctgectca gctggtgaag gtggaggaaa tatcacaac cattgattct gagaacttca 180
cagtgcacaa ctgtatcaag ttttcaggac ctttggctac aacctcagtt gccactaatg 240
caaaatttga aattagaagc cccaagcgtg tgcagatcaa atttgatgaa gggattgttg 300
gtacaccaca gttgaccgac tccattgtgc taccagagaa gtttgagtta ttggacaga 360
acatcgacct gagtccactg aaaggcatat ttttttccat cgaaaatgca gcctcctcgg 420
tttgcaaaga catatctgag cagcctccgc tc 452

<210> 13715

<211> 427

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-002-Q1-E1-B11

<400> 13715

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tgcccgttca gcctaaccat ccccgcccgt acagcgcccc ggcgaccggc gccgcttctc 120
gtcgtccgcg ctaagcgcgc cggcagccag cccctgctg ccgcccctc gcgtcagccc 180
gcgaatccca gcgcggtccc gaagcgggac gtggaagaag aggatgagga ggtcgaggag 240
gagatgccct ggatccagga caaggcgtg gacctcgtgg agttcactgg caccgtcaca 300
caggccatcc caggggcccc tggttgctct agccctgttc catggcttct cgcggttccc 360
ctcgcctacg tcngggctct ctttgtgctc gcggtcgtcc gcaccgtgcg caagttcacc 420
tcgccgc 427

<210> 13716

<211> 452

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-002-Q1-E1-B2

<400> 13716

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caacctgttt ttcattgtct tcacgttgat tcttggtttt gcgtttgcta ttgttgctct 120
gcacccaaag atcaatggaa gcttggtgcc tgcacagtt attggtatgt actgtacgta 180
tctgtgctac agtggactct ccagtgcgac aagggtattac gaatgcaatg ggcttcacaa 240
tactcaaaa gctgtgtcaa ctggtagcct tacgttgagg ctccttacca cggttctctc 300
tgtggtctat tctgctgtcc gcgctggctc ctctgcaact gtgctctcgc caccagactc 360
accacgtggg accgacaagc cattgcttcc cttcagcaag gcagacgaac aagaagataa 420
gaaggatgtg ccgangccgg tgacatactc ct 452

<210> 13717

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-B3

<400> 13717

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 gtcgggatct gagggctact ccggaccggc tgatcgaggt gaaggtcacg gcggacaaca 180
 gcagctgcat ccgtccatc tcttctatct acatcgagc cgatggcaaa ccgtacgagg 240
 aggggccatg ggggttctggc catgctggca cggagtacaa gattgatctg tgcaggttcg 300
 acgagagctt gacggagatc tccgggacca cggggccagc ctacaacatt gacaatctgg 360
 tcaagtcgct caaatccctc accaacaac gcgcctacgg accgtacggc acgggacacg 420
 gcaccccg 428

<210> 13718

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-B4

<400> 13718

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 aggacatcca gattagctgg ggatcacctc tgcttatcta caggacattg agaatgccta 180
 taagaaaacc tttctccctg agatgactga aaaatgtgag gttttacaac attctgcaag 240
 ggaagctcaa gattcagaaa aggtggtaga cgacattgaa tacctgaagt tcgataaagg 300
 gccgtggctc aagcaggaca atcgcacttt ataccacctg cgaatactgg ttcacgataa 360
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<210> 13719

<211> 455

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-002-Q1-E1-B5

<400> 13719

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 tgccaaggat gactctgatg gcgacggcta tggcaaccag gaccaccgta ctctggcaaa 180
 tgggtgccttc aagggccaag agaatgggtg ccccaaggag aattcttctc atggccgtac 240
 tgttgtcaag ggaaaggaga atggggcccc caaggatgaa ggggccttcg atgtaagtaa 300
 actacagaag ctacgggcca acaagaagaa tgggtgccact gacaatggaa tcaagaagct 360
 gaccaaacct gacataaaga agaaagggaa gcaagatang gtgtgggacg acaaaccttc 420
 caacaagaag ctggatttta cagacccggc agacg 455

<210> 13720

<211> 119

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-B6

<400> 13720

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 tctcacagac gatctggctc gtctgatagt ctctaccgt gattccccca cttgcgccg 119

<210> 13721

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-B9

<400> 13721

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 ctaggcaccc agagacgagg aatggcgtac caggcgacga aatgcttctg ggagtttata 120
 ataagcatag atccggagat tctcaaata gtcaaccttt tgaactgcct gctgaatcca 180
 tgatcaagca cgacacaacc tgacgaactg aaacatctta gtaaccagac gaaggaaatt 240
 cagaacagta gtgctatgaa gagtttgtgc acttcagttt taggacagtc agtacttcaa 300
 gttctccacc atttcattaa aac 323

<210> 13722

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-C11

<400> 13722

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acggccacaa ctgcggcggtg aacggcttcg tgtccaagct cgtccacggt ggcggcgggc 180
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ggctacggca gcggccacgg gtaccctcgt ctgcgcgcg cgggcgcgta ccctcaccgg 300
cacggggcat accctcaccg gcacggcggc cactggtagc ctctcgcgc caccctagcc 360
gcgactcgg cgcattacgg gcacacgggg tcctttc 397

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<210> 13723

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-C12

<400> 13723

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gagccgcgcg cacgttcgga cggccgggat gtctacagg gcgtctcttt tcgtcggagg 180
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cgccggcgtc gccgcgctcg tggtcgggcc caagcagctc cccgagatcg gccgcagcct 360
cggcaagacc gtcaagagct tccaggagga cgctaaggag ttcgaaagtg gactgaagaa 420
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<210> 13724

<211> 280

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-C3

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gtgatttccc ggatggggac ttgtgcctag gtactggcat cccccacagg tggtgagaga 120

tagcattagc gagttggtaa agaactgggt taaaagtgt aacgcctagg ttttcagacg 180

ccacttttta tgtggtcctg gatatgtgat tcttttctgc cttggcattc ctgtctagaa 240

cactgatcta gcaatcccag accacccttt catttttgcg 280

<210> 13725

<211> 423

<212> DNA

<213> Zea mays

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cgagagggag gacgagtacg acacgcggga gctgtcggag ttccccgaca tacggctgtg 180

gttcgtgagg ctgcacgccg cgtacccttg gttcccggtc gtgctcgact ggagagccgg 240

cgagcttgcc agatacgccg cgatgctcgt ccttcaccag atgagcatgc ggatgggcgt 300

cgtcttcaac ccggaggcgc tggagctggt cgtgatgaag aagggtgttcg ccgtcgacgc 360

ttggctgaag cagcagagcc atcccaaacc gaggtgaag acggcggaca tgggcaagat 420

gct 423

<210> 13726

<211> 448

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-002-Q1-E1-C7

<400> 13726

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ctggatttct tgctggtgcg catctctct ttcagccacc aagtttggtt tactctagag 120

ctgaatgcca acctcttgcc tgtggtgacc aaaccaacc gtttttcacc tccccgtgga 180

taagggtttcc cacaagtatt cttggccgtg tactacttgt tccatgctcg gcaaagaact 240
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ggctgctgat caagtggagg agccatctaa ctgagggttta atananggat agagtatctc 360
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caagtcctag gtcaagaaca agtaccgc 448

<210> 13727

<211> 98

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-D1

<400> 13727

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aacagttgga gccttcatgt tgggtctggac acctgggg 98

<210> 13728

<211> 154

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-D12

<400> 13728

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agcactagcg cggacgcctg cacgtcgacc atatgtgaaa actcccaact ccttggatgc 120

atggcttgac tactctacac tgtcacctaa aata 154

<210> 13729

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-D4

<400> 13729

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accatcacaa gtcctattg aagggtacc gccaacgct gctgtagttg agacgtcga 180
 ctttaagtatt ccaagaaaac tccttctgtg ggtatacact ctggttcatg gtcgttactc 240
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<210> 13730

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-D5

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 accaacttca tccgcgacgt ccgcgacgaa ggatacttca aatgccttct ggacgggaac 180
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 aacaaatact atgagaaaact acatgacact cagtacggaa ggcataggtg ggtagaatat 300
 gcatagaaaag gtcgtacaa tgcaccccaa gtgcctcctg aatggcatgg atggctgcac 360
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<210> 13731

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-D6

<400> 13731

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gttttccctc ttcttccgc gctcggacat cgccagtga gggacgcgcg cgccgtcgtt 300
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<210> 13732

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-D7

<400> 13732

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ggttcaaaag gcatcataat tcagggttata ccacaagaaa tcattataac aagtgtcttg 180
gcctctgaac caacaccaga gttggatgcc tgttcaatta ctgcaccgct tccagtagag 240
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<210> 13733

<211> 245

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-D8

<400> 13733

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tgatagtgca aagtgaagta tatgtatttt ctgaaagcca gccagatcgt ttggctctag 180
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tcctc 245

<210> 13734

<211> 447

<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-D9

<400> 13734

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tcgttcacag atctggccga actggccgtg ctgggaagaa gggcactgca attgtgatgt 240
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cggagcttcc aaaaattaat gttgagggat ccgacttgct ggggtggtgga tttgactcct 360
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gtggacgtgg cgggtggtgg ggtttttg 447

<210> 13735
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-E10

<400> 13735

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acaaggattc ccaggcatgt caccatttgg gcagattcaa gaagcaagac ctcttcagca 240
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ggttgctagc agcctccgtg cctgactc 448

<210> 13736
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-E11

<400> 13736

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cctcagtacg gcggcgaatg agctcggctg cctctctccg tgctgacgag gccgctcccg 180
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gatcaaactg atattagatg gtgtttccag agtatatatc tactgggggc ttgctcccat 360
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<210> 13737

<211> 135

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-E2

<400> 13737

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<210> 13738

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-E4

<400> 13738

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cgcgaaggac aagctgggca acgacatcac ggtggaggcg tggtcaaca cgcacggtec 180
caacgaccgc acgtcgcgc agggggtcaa gggtgacccc acgtacctgg tggaggagca 240

ggacaagacg ctggccacct acgggatcaa cgccgtgtgc actcacctcg gctgcgtcgt 300
gccgtggaac ggccgagaga acaagttcat ctgccatgc cacggatccc agtacaacaa 360
ccacggcaat gtgggtccgtg gaccggcgcc tctgtcgctt ggcttggttc acgccga 417

<210> 13739

<211> 285

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-E6

<400> 13739

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gccagctcct ccttctccct ccgcccgcgc tccttcagct tgtggttctc aaacggcaac 180
gcgtatggca gagacagcgc caccgccacc acgagcagga gggcgaccag gacgtggtgg 240
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<210> 13740

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-E7

<400> 13740

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acaagcccgcc cggaactggtc aagctgaacc cggcgagcta gtacacgccc ggtctggaag 180
acacgtcat cctcaccatg aaaggcatcg ccgcccgcgt gcagaacact ggctaggcgg 240
cttctettca ctcagctgca gagtgcaccg caataatcag cttccggatg gtggagtttt 300
gtcaattttg gatggaaatg ccgaactggc aacgtccgtt ttccctatgc ataagtaatt 360
tcctgcctct ttatattcac gcttggtgtc aagtccac 398

<210> 13741

<211> 244

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-002-Q1-E1-E8
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 gggcttcgcc tggcggcgtc tccccgggcg cgcgtggcgt tccgcgcggc gcgggcgcgg 180
 ccgtccgtgg cggcccgcg gcgagctgcgc gcgtcgccgg ggatcagcct gagcacgggt 240
 agtg 244

<210> 13742
 <211> 354
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-002-Q1-E1-F1
 <400> 13742
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 aaaggagacg atcactgcgt ttggaacaaa ttgtttgctc tgataagttt gattattgca 180
 aatgtagtca agtgatcgtg cagtcatggt tcggacttcc tgcgcatttc atattcgcg 240
 attgctgttg agtatctgga gaatcaaagc aactgttctc ccctagacaa gtgttggtatt 300
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<210> 13743
 <211> 449
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB36-002-Q1-E1-F10
 <400> 13743
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 gtcacccaaa atcatatatg gagatcatgg aatgatata aaggggtgag cggccagacg 120

atatacagga tattaacgat gaccctccaa atcctgatca accaatctca gaacctcgta 180
 tggcaccgaa accaaagcca tgggaaaagc aagggtcaagg gagtttggcc tgtgatttga 240
 aatcgccgcc aagggaatcc gacgtgctga ggtcagaagt tcagcacgat ggcaccaaca 300
 aggctacgga gtccgccgat ggcgccaacc aaacgcactc attgctgcag gtangcgtn 360
 ctgctggatc tgaatctcct gcggttccag atgacgcgcg ttcttcgctt gagtaaccac 420
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<210> 13744

<211> 164

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-F2

<400> 13744

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 tgttgccgatg ggtgatcgca agtaggccat aatcagtga cggaaaatga tgacccaaat 120
 caaggtagtg ctctctgat cgatagccca aatctattgc taac 164

<210> 13745

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-F5

<400> 13745

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 gcaagcaacc caacagccaa caggtccatt gcacaatacg caacatgtcc atattactca 180
 gtccctctgc catgatgatg ctacatcttg cattaaacag tgacccatcc agtccacata 240
 ttacccaaag acatactcgg acctcagtga ataataggct tcagtgggtg cgcccttagc 300
 ttcgacatat ccaatcttga atccagctct tcatacaact cgccacaac gcttatgttg 360
 tcaccctga taatgtacag accaaga 387

<210> 13746

<211> 451
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB36-002-Q1-E1-F7

 <400> 13746

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gaatgaagaa atcgcttcaa ggcttacaca aagatttgac gatacagaag aaaaggttaa   180
gttgaggctg gagacttatt accaaaatat cgagtccttg ctatcaacat atgagaacat   240
tattgtcaaa gtgcaaggag atgccacagt ggatgctgtc ttgctaaga tcgacgagct   300
gctgggttct atcctggaga agaaaaatga aatgggttcc agcacatgag caaggtaaaa   360
atgattgggt gcagtcaga tccgacaagt tcatgtaatg caagtcacct ctcatgatag   420
gaacttctcc agnggaatat atctgaagca c                                     451
  
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<210> 13747
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 <213> Zea mays

 <223> Clone ID: LIB36-002-Q1-E1-G1

 <400> 13747

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ctctagccgc ctcgccgca ctgctaccgc gtcgccgacg aggcggagcc tcaaggcggga   180
ggccaagggc gagtggctcc cgggccttcc ctccccgcc tacctcgacg gcagcctgcc   240
gggtgacaat ggcttcgacc cgttgggect ggcgaggac ccggagaacc tgaggtggta   300
cgtgcaggcg gagctgggtga acgggcgggtg ggcgatgctg ggcgtggccg ggatgctgat   360
cccggagggtg ctgaccaagg ccgggctgat caacgcgccg cagtggtagc acgc         414
  
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<210> 13748
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-G10

<400> 13748

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aaccaccacg cggaagag ggactgggccc atcacctccg tctgcacga cgccactgcc 180
gtggctgggt ccggtgccgg cgctttgctc agtgctgtgc acgggtttta tacagggatc 240
ccttttgtcc agaagcatgt caagggggccg aagtggctgc agttgctcgt tggggtgcga 300
ccactgctga tattctcagg tgccagtgt gtatttgggt catatgcact tccaaggttt 360
gttcagctca cagtgcgtc ttactacgcg gcatcaactg gctcgcaata tgctgtttca 420
caaatcacac ggcagatcg 439

<210> 13749

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-G12

<400> 13749

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ctcgtcagct ctggcggtgg cgctcaagg cctgccgcc ctcggcgcc gcgcctcctc 180
cttcgccgtc gtctgtcca agaagaagat caagaccgac aagccctacg ggattggggg 240
tggcctgacc gtcgacgtc acgccaacgg gagaaacggc aagggaag gcgtgtacca 300
gttcgtcgac aactacggcg cgaacgttga cggatacagc ccaatctaca acgaggatga 360
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<210> 13750

<211> 199

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-G2

<400> 13750

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gagcgggcgg ctgcggggcat gttcttgagc ctgcctgtat tctactccgt gtgtgttgag 120
ccatatatct gatgctcaag gattgggttaa tttgaacaag tggtgcaact gcgcgtgtac 180
atggatttgc tcttctct 199

<210> 13751

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-G5

<400> 13751

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gggactcgtc ctgctctttt ctctgctgga agagtggat ttgtcagaac actagtggag 180
tgcaaggaat ctagaattgg aaagcagccc attgaagtcc caccgaatgt tactctcaca 240
ttagaagagc agtttgtcaa agctaagggc ccactagggg aattatctct cagcttccca 300
ggtgatgtga agattgtgaa agaagaatcc ggtaacctga gagtttataa gactgcagag 360
gacaagcggg cgaaccagat gcacgggtctt ttcagaacat tgacagacaa catcatcggt 420
ggtgtgtcga aaggat 436

<210> 13752

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-G6

<400> 13752

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tgttcagggc ttgaagaaag agtacagcta caacaagatc ctcaaggatc tcaaaaaaga 240
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aggatgatcag cgtaaaaatg ttgctacttt cctagtcacg gccggaatcg tgaaaaaaga 360
tagcatcaag attcacggat tttagactgc aaattttaag tgcttgtgtg tgcctatcat 420
aagataccat atgataccag gtattgaagc 450

<210> 13753

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-G7

<400> 13753

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cgcaatagtc atcgggttaa tttatgttta agttacattg agggacccat aatatatgta 180
tcgtgttcca tggacacata atcatattat ataaaaataat atttttaatg aatactcctt 240
ccgtccactt gatttggacg ttctgggttt ttaaaaaaaaa aaaaaaaga aataaaacaa 300
gaaagtaaaa tcaaaagaaa aagaaaaaaa taagagtcaa agagagatat caagagccaa 360
aaaaaaaaag ggggggccgc cctaaa 386

<210> 13754

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-G8

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452

<210> 13755

<211> 410

<212> DNA

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<223> Clone ID: LIB36-002-Q1-E1-H1

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cgccacgccg ccgagcaatg ccaagtcatg cgctgctgca tgccgtcttt gattttaccg 360
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<210> 13756

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-H11

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tggccaacat tgggatgcaa ctgaatgggtg gaaatttgga gattcaaaaa cgtattttcg 240
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taatgcgtca ctgcagagtt atgcacacca ttatatagca gtacgttaat ggatgatggg 360
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<210> 13757

<211> 377

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-002-Q1-E1-H12
 <400> 13757

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<210> 13758
 <211> 448
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-002-Q1-E1-H2
 <400> 13758

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 ttatttactt acacgcacgc acgtgtacgg cgctaggggc cgtatatata tcgagttctg 240
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 tgcccgtgcc cgtgcggcac cctgtgctcc tgctgcctgc tctcgtagtg ggccctcttc 360
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 ccgggctcga tcttgtgcct ctgcgcgt 448

<210> 13759
 <211> 458
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-002-Q1-E1-H3

<400> 13759

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ttgttcccaa gcatccaggt gtgtctggag aagaagatga cggctatttg atattctttg 180
tacacgacga gaacacaggg aaatctgaag taaatgttat cgatgcaaag acaatgtctg 240
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ttgtaactga ggaccaactg gctcgacagg cggaggagca gtgaagatac ggcacctgca 360
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<210> 13760

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-H4

<400> 13760

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ccccatcaag gtgggctcct tcggcgaggg cgcatacacc atgcgcaaga ccgtgggcaa 180
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ggacaccgcc gggctgtccg ccgaccccca gaccttcgcc aagaaccgcg agctggaggt 360
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ccgcaac 427

<210> 13761

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-H5

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gccggcgacg ccagcggcat caagtctgtc acggcgcttc accccgagca ggccgccacc 180
gactccaatg tcagcgtcgc catcaccggg atcggggccg acttcaccag cctcaagtcc 240
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aagccgcccg ggctca 316

<210> 13762
<211> 340
<212> DNA
<213> Zea mays
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tttctccatt ttgcgaattc ctagtttatt tgaagtatat tactatcata tacattatct 180
aaatcgatcc actttagata agatataaaa aatcgataga aacaaactaa gaaagagtaa 240
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agctagcttt ctcggcaatt gggtatgggt ttctctagtc tgttcattgc agtatctgca 360
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<210> 13764

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-H9

<400> 13764

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 gaggtgggag gagaggaggt ggacgaagaa tagtgtaatg ataatgggtg tggcgcagcg 180
 gcggtgggtt agggcccaaa acgatgaaca catgggggtt ggttgggtgt atgtatctat 240
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<210> 13765

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-A1

<400> 13765

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 tgtacagatt attgattgta aatttgctta ttcaatcaag aagcaattca tcgagtcaaa 180
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 tactactttt ttctctctct ttttgacttg cgtgagactt ggtatgacgt cagtattggt 360
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 tcaa 424

<210> 13766
 <211> 383
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-A10

<400> 13766

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 ttgattacgt tgagaagaag gctttgtccc ttggacttga gaaactattc ttgcttacca 180
 caaggacagc ggattggttt gttcgtcgcg gctttaagga gtgctcgttc gattccctgc 240
 ctttggtgag gagaaaacgt atcgacctct cgcgcggggtc aaaatattac atgaagtggc 300
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<210> 13767
 <211> 56
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-A12

<400> 13767

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<210> 13768
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-A2

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 ctgctggcgt cgtggccgct gtccggtgcg ctcggtcgtc aggtccaag atccccgagag 180
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tgaaggctgc gcaggacgcg tgggacaaaag ttgaggacaa gtacgccgtg gccaccatcg 300
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<210> 13769

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-A3

<400> 13769

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 gcctgtcagg cgctgcgtc acgcggcccc ggccccggtt cagcgtcgtc aaggccgcca 180
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 cggcctaccg caccgccgtg agcccgtgc tgcggggcgt cgaggtcggc ctgcccacg 360
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<210> 13770

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-A4

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 ttgcagactt ttaatcacca gactgggaac aaacaatgga ccgactgact caagatgaaa 180
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 cgataatatt attcacagca gtcatgcgca ctttttccat ttctctctt caatcttagc 300
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<210> 13771

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-A5

<400> 13771

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aacctggcgg gcgtgtggct cggcgagctc tcgtcggcgc tgcattgggac gtggcaggcg 180

gtggccgtgg ccgccacca cgggctcggc gaggacgacg acccgcggtt gccgtgccag 240

cagcagcaga ggccgtggcg aggcgacgac aggagcagca gcaacaacaa ggcgttgcga 300

ggagccgcgg cggccgggac ggacaggcgg gagggggacg tcgcgaggtg cggcggcgcc 360

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ttgctca 427

<210> 13772

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-A6

<400> 13772

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ttagctccgt ggcgtagggc gcgacgtggc agttcgacac ggaggcgctg cccaacgacc 180

tcgtcaagcg cgggctggcc gtgcgcgggg aggaacggga gctggagctc accatcaagg 240

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cgttctggga cgaggtgcgc aacgtggg 388

<210> 13773

<211> 422

<212> DNA
 <213> Zea mays
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gatcatataa atggcaagaa gcatcagaga gcactgggca tgtctatgcg tgttgaaagg  240
gcatcacttg aacagctatg caggcgctta ttgatcttca cgtggaggac aatgcaaccg  300
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tcgatcaaat tgagaagatg actacttcaa ttgaagatga tcggaagata agtgttttgtg  420
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<210> 13774
 <211> 424
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-003-Q1-E1-A8
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gggg                                                                    424
  
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<210> 13775
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-A9

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tggcggcggc ggccggcggc ggctccgcgc cgctccggg cgccgtgacg cggagcttga 360
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<210> 13776

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-B1

<400> 13776

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<210> 13777

<211> 108

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-B11

<400> 13777

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108

<210> 13778

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-B12

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cgcctcatcg ccggcgaagc ggggtgcagct ggccgcgccc gagggccgcc gcgccgctct 180

gctcggcctg gcggccgtct tcgccgtcac ggccaccacc gggtcggcca aggccacgat 240

cttcgatgag tacctcgaga agagcaaggc caacaaggag ctgaacgaca agaagaggct 300

ggccaccagt ggccccaact ttgcgcgcgc ctacaccgtg gagttcggca gctgccagtt 360

cccctacaac ttcactgggt gccaggacct cgccaagcag aagaaag 407

<210> 13779

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-B2

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gacaaggagg ccgaggcggc gctggtgcac aagatctcca gcctggccgc cgccatcgcg 240

aagctgccat ccctgagccc gtcgccggag gtgaacgcgc tcttcaccga gtcgtgacg 300

gcggtgcac ccgcgcagca gcgtggacgt ggagcggctg ggcccggagc tgcattgagat 360

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<210> 13780

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-B5

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aatcagtgtc ttgaaacctt tttgcgctgt ttcgtgcaca cttgtccttc caagtggtea 360
caatggattt ctgttgctga atactgggat aatactagtt ttcattctgc cctcgggt 417

<210> 13781

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-B6

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ggccaccacg gaccgcatga cctagaagac ggccagctca agattgtggc agccatcaag 360
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<210> 13782

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-B7

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<210> 13783

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-B8

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<210> 13784

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-C1

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<210> 13785

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-C10

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<210> 13786

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-C11

<400> 13786

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<210> 13787

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-C2

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<210> 13788

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-C3

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<210> 13789
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-C4

<400> 13789

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aaatcttgct ttgatgtttg tgggtgtgat gatccgagcc caactgctac tgattcaaga 300
gcggaagcaa gtgtcggaac tttacctttc cagcagttgc aaaaattgga gcattgtaca 360
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<210> 13790
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-C5

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ccgaggcgca ggcgcaggcg ggccgccgcy ccgtgctcgg gctgggtggcc actggcatcg 180
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<210> 13791
<211> 396
<212> DNA
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<223> unsure at all n locations

<223> Clone ID: LIB36-003-Q1-E1-C6

<400> 13791

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ccaaggccgt gaagatgaga ctctagcgaa gttacagaag ttcaagtctt ctttctcag 240
taagaatctt gctaccaatc atgtcgaaga aaagaatcct tctactgata aggcggaaaa 300
ggaagatgaa gaggaggatg actacaaagg gtggcacaca aacctactgt ctttcttacc 360
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<210> 13792

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-C7

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cggcggaccc ggagacgttc gccaagaacc gggagctgga ggtgatccac tcccgtggg 180
ccatgctggg cgcgctcggc tgcgtcttcc cggagctgct cgcccgaac ggcgtcaagt 240
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acctcgggaa cccgagctc atccacgcy agagcatact cgccatctgg gctgcccagg 360
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<210> 13793

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-D10

<400> 13793

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 tgggcctgcc aggtcgtgct catgggtgcc gtcgagggct accgcattgc cggcggggccg 240
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 gacgaccccg aggccttcgc cgagctcaag gtgaaggagc tcaagaacgg ccgcctcgcc 360
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<210> 13794

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-D11

<400> 13794

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 tgggtgacgcc cggcgcgagg gccaaaggaca gggccacccc ggagcagggtg gccgcgtaca 180
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<210> 13795

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-D12

<400> 13795

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 gccgacgcca ccgtttctcg tcgtttcttc gcgcgcggcg gccgtcctcc caaggccgtt 180
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<210> 13796

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-D5

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agtgtccacc gcgcccgcgc tcgaaggccg catcgcgctc gtcaccggcg gctcccgggg 180
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cgccgtggcc gtgcgcgcgc acgtctccga tccggacgcc gtgcgcgcgc tcttcgaccg 360
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<210> 13797

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-D6

<400> 13797

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gctgtcggcg gacccggaga ccttcgcca gaaccgcgag ctggaggtga tccactgccg 360
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<210> 13798

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-D7

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cgggcggcggc ggcgtggcgg cgctgggcgg cggcattccac ctggcggtcca tcccggacgg 300
gctggccgac gacgaggacc gcaaggacat cagcaagctc gtcgacgcct acacgcgcca 360
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<210> 13799

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-D8

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tgttccggac aatcggttag aatttgttgt gtggc 395

<210> 13800

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-D9

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ggccgaggag gttagcgccg cgcctagtgg ctccgcggag gcgcctatgg cagagctggg 360
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<210> 13801

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-E1

<400> 13801

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ttgtctcgtt gccgtccgcg ccgtcgtcgc aactcgcttg cagggcggtt gccgtcgacg 180
ccggcgccgc caggatcacg tgctccctgc aggacgtcgc cagcaggtgc gtcgacgccg 240
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agggcacggg caggcggaac cagtgccga ccatcgacgg cggcgtggag tcgttcccgt 420
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<210> 13802

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-E5

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gcatgcatgc aaaagacgcc tcgggagata agaccctgt tattctgcta gtacgtatgc 180
atgcatgtgc acgatcgatg ggcgcgatgg tcatatcatc cgttggttca gtagtaaggc 240
tggatcttcc agcgtggtt gtcgccctcg caccacttcc agagcacgac gttggtgccg 300
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<210> 13803

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-E6

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gcttattcct gacggtgttg ctatcagaag ccgaaaggag actggtggct attatgcttt 240
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<210> 13804

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-E7

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cccatttcgc ccgccccgc gcggtctcca ctgggtacgc ggcgtccttc tacggcggct 180

cggcgatgtc cgcggccggc ggcgcggacg aggaggagga ggtcggctac gagtccgggt 240
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<210> 13805

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-E8

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 gaacgacaag aagaggctgg ccaccagtgg agccaacttt gcgcgcgctt acaccgtgga 360
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<210> 13806

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-E9

<400> 13806

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 aactccacgc tggagagtat ttgcggcggc gttcccatgc tgtgctggcc cttcttcgcc 240
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gggcaagaga tgctccggcg cgtgactgaa etc

393

<210> 13807

<211> 401

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-003-Q1-E1-F11

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agggccgcat caccatgcgc aagaccgtgg gcaagcccaa ggtggcgggc tccggcagcc 180

cctgggtacg ccccgaccgc gtcaagtacc tcggccctt ctccggcgag ccccgagct 240

acctcaccgg cgagttcccc ggcgactacg gctgggacac cgccgggctg tccgcccacc 300

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-F12

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taattcatgg tgaaaagagg gagaagttgg caaagtgagg tctgtcgtgc atattttcaa 180

cggaacaat ggagtagcaa tattgctatg ctagggttct gaagttgtag gagcttttct 240

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<210> 13809

<211> 168

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-003-Q1-E1-F2
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 <211> 414
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-003-Q1-E1-F6
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<210> 13812

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-F8

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<210> 13813

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-F9

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<210> 13814

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-G10

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<210> 13815

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-G11

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<210> 13816

<211> 290

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-G12

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tttggtcgtt ggttttgtac ccagacagca agaaactgtc cagcttattg tcttgttcct 240

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<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-G3

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cgcgcagagc atcttcgcca tctgggcctg ccaggctgtg ctcatgggcg ccgtcgaggg 360

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<210> 13818

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-G5

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tctccctgct ccgtgcgaag gccgcttccg aggacacatc ggctccggc gacgagttga 240

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<210> 13819

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-G8

<400> 13819

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ccgtcggtag agatttcacg gccagctgc gtcggcaccg ctgttgcttt ggcacatgat 180
ctacggctgt acgagtttct ctggcgtggc tactgcagct gatctcattg agcgtatata 240
aagggtccgag ttccaatcaa taatcaaaga caccctttac gtgtccataa aggctaagcc 300
agatctcgt 309

<210> 13820

<211> 162

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-H1

<400> 13820

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cttgggtattg ggctcccagg tagcgcgaag gattgcttta atcagattga gtctttgtca 120
ttcttggaga acaatagggc cttegttccg ttgatactat ca 162

<210> 13821

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-H12

<400> 13821

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cgaggccgtg gccgccgacc ccgagctgag ggcgttctgg gacgaggtgc gcaacgtggg 120
gcacggcgac aagaaggacg agccgtggtg gcccgtgctg gacacccgcg acagcctggt 180
ggagacgctg accaccatca tgtgggtcac ctccggccac cactcggcgg tcaacttcgg 240
gcagtaccac ttcgccggtt acttccccaa ccggccgacc accatccgga agaacatgcc 300
ggtggaggag ggccggcccg gcgaggagat ggagaagttc ctcaagcagc cggagacgac 360
gctgctggac atgcctgccg cgca 384

<210> 13822

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-H2

<400> 13822

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ccgggctgac gctgaggcct tggaggccta tgcccatgaa gageggctgc aattccgtcg 120
gagagatttc atcggcacct gcgtcggcac cgctgttgct ttggcaatga tcgacggctg 180
tacgagtctt tctggagtgg ctactgcagc tgatctcatt gagcgtagac aaaggtcggg 240
gttccaatca aaaatcaaag acacccttta cgtagccata aaggctaagc cagagctcgt 300
tccatcgctt ttgactatgg tactgaatga tgccatgaca taagacagga cca 353

<210> 13823

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-H3

<400> 13823

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agcttactcc ctccatctct cctgcctgac tctgccccag catcggtcgt ccattctcct 120
gagctccagc gcgcgcgttc cttcctgttg cgctctctc cgtcgaagct cctgctgct 180
cgccatggca tcttcagtc tctcgtcgt cccctgctcc tgtctttgct tggcgtccgg 240

cctcagtagc tcgcctcccc cggtcagcag caagcagctc ctttcccctc gccatgcacg 300
 ccgtcgatcc cctgctgcag ttctccaca tggctctggtc gtcgaccgcg cgcgtcacct 360
 gctcgtggtt atgggaaacc agcagcctc tctcacggg gtagtttctt cgcgtca 417

<210> 13824

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-H4

<400> 13824

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 cgtcaagcgg gtgatgggcg ggtgccagtt ccgcgaggag caggccggcg tggagctgct 120
 ggcgcggtgc cgcgaggacg acgacgcgac gggcctggtg gtggtgaagc cgggtgcacct 180
 gcggctgcgg ctggtgtgcg gcgaccaccg ggccggcgcc accaacaagg agaccatcag 240
 caccgagtcg agcctcaaga tcaatgtcac cttggactag ctagtggttc tgaattctga 300
 ttttggtatt tgatccgtgt ctatttttat tctttggaac ctgtctattt ttattctttg 360
 gatattgacg cgggctggcg atgggaacgt gtcagtacgt gtatgcgact atg 413

<210> 13825

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-H6

<400> 13825

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 gtcggagaga tttcatcggc acctgcgtcg gcaccgctgt tgctttggca atgatcgacg 180
 gctgtacgag tttctctgga gtggctactg cagctgatct cattgagcgt agacaaaggt 240
 cggagtcca atcaaaaatc aaagacaccg tttacgtacg cataaaggct aagccagagc 300
 tcgttccatc gttgttgacc atggcactga atgatgccat gacatacgac aagaccacaa 360
 aaactggagg cgcaaatgga tctatcacgc tagaaacaag cagacctgag aacagtgggc 420

tct

423

<210> 13826

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-H8

<400> 13826

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agttagaaga agcaccagtg cctgatcgat ggcgggcccag gctcgccctt ccggccggca 120
gctgctgggc cgccccgtgc agtcggccgt ctctaggtcg tcggcgagga aggcgccctt 180
cgtcgtcagg gccagctcca gccctccagc caageaaggt gccgacaggc agctgtggtt 240
cgcgccaag cagtccctct cctacctcga tggcacgctg cccggcgact atggcttcga 300
cccgtgggc ctctcgacc cggagggcac cgggggcttc atcgagcca 350

<210> 13827

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-H9

<400> 13827

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tgacagaggc agttcgacgg cggccataca cagttgtgct ctttgatgag attgagaagg 120
cacaccctga tgtcttcaac atgatgcttc agattttggga agatgggaga ttgactgaca 180
gcaaggggaag gacggtggac ttcaagaaca cactcctgat catgacctca aatgtaggga 240
gcagtgtcat cgagaagggt ggaaggaaga tcggatttga ctttgactct gatgagaagg 300
acagtagcta cagcaggatc aagagcctgg tcatcgagga gatgaagcag tatttccgac 360
ctgagttcct caaccgt 377

<210> 13828

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-A1

<400> 13828

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gtaatgtcca cattgcacga ccaaccatat atcaagttgt caaggaaatg attgataaaa 120
tgggctatga ggtaaaactt gttcgggtaa acaaaagaat tcaagaagcg tactgtgctg 180
aactttgtct aacaaaagaaa catccggcac tgcagattga tgattctaca gacagcatca 240
ccttcgatct tcggccttca gatgccataa acattgctgt tcgttgcaag gttcctgtac 300
aagtccatag aagtcttgca tacagtgcg gcacagacc agtcgagcca gcaagaatgg 360
cagtagcagc tggcctatca gatgggttgg tatttacaga gcttgacaga cccgatggac 420
aggcatctg 429

<210> 13829

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-A11

<400> 13829

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atcgagaaca tgaacggcaa ggagctcgac ggccgtaaca tcaccgttaa ccaggcccag 120
tcccgtggcg gtggcggtgg cggcggtggc tacggggggc gtcgcgggcg cggcggtctat 180
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ggtggtggcg gcggctacgg aggcggtggc ggctacggcg gtcggcgcgga ggggtggtgg 300
ggcggctacg gcggcgggcg cggcggttgg agggactgat gtgtggggcc atcctggctt 360
cgcccgagtt atcttatcta tctatagtat cgtggtaccg ttcg 404

<210> 13830

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-A12

<400> 13830

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tccatggcgt ccacctcgtg ctctctccac cagtccaccg cccgcgtggc cgcgccgtcg 120
ccgcgcctcg ccgccccgcc gcgcagcgcg caactgttcg tctgcaaggc ccagaagcag 180
caggccgccg cggcggagag cgacgtgtcg cgcgcgccg cgctcgcgt cctcgccggc 240
gtcgcggccg tcggcgccaa ggcgagccgc gccgcgccg cctacgggga agcatccaac 300
gtgttcggca ggacgaagaa gaagacggac ttcattctct acgtcggcga cggcttcaag 360
ctgctgattc cgt 373

<210> 13831

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-A3

<400> 13831

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gcagaccggg ttcgacgcca tccgcaccgt cgtctcgcgc atgggtcaagc tgggtggagga 120
caccaccgac gacgtctctc gcttcgaggt gccggagatg atagagatgg accggttctc 180
gtggttcaag gacgaagagt tcgcgaggca gacgatggcg gggctcaacc cgctgtgcat 240
ccagctgctg actgagttcc ccattcaagag caagctggac ccggatgtgt acgggggcac 300
ggagtccgcc atcaccaatg agatcctgga gaagcacatg aacgggtgcgc tgaccgtgga 360
acatgcgctg gcggcgaatc agctgttcat cctggactac acgacgtgtt cctgccctac 420
gtgcacaa 428

<210> 13832

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-A5

<400> 13832

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agcagcacac actgcacgca gctagctagg agcagcagca gcggcggcga tggcggcctc 120

catgatctcc tcgtcagctc tggcgggtggc gcctcagggc ctgccgcccc tcggccgccc 180
 cgcctcctcc ttccgctcgc tctgtctcaa gaagaagatc aagaccgaca agccctacgg 240
 gattgggggt ggcctgaccg tcgacgtcga cgccaacggg agaaagggca agggcaaggg 300
 cgtgtaccag ttctgtcaca agtacggcgc gaacgtcgac ggatacagcc caatctacaa 360
 cgaggatgac tgggtctcca ccggcgacgt ctacgtcggg ggaaccactg ggctttctgat 420
 ctgg 424

<210> 13833

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-A6

<400> 13833

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 ggcgctcccc aggaatgggc agcagcgggc gtcgtcgtcg ttgttctcct cctcctcctc 120
 ttctcctctc ctctcggca agacgtgtgt gaggcaggcc gaggcagccc ggccgtcgtt 180
 cgcgtgctgc gcccgggcgg attccgacag gccgatctgg ttccccggca gcacccctcc 240
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 tgacccggag agcctgcggg ggaacgtgca ggcggagctg gtgcaactgcc ggtggggcat 360
 gctcggcgcg gcgggtatct tcattccgga gttcctgacc aagatcggcg tcctcaacac 420
 gc 422

<210> 13834

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-A7

<400> 13834

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 gccgtagagc tgcagaacaa ggggggtgtc ctgccgacgt gggcgaggtt cgagctcggg 180

cgggcgcgcg tctactggaa gaccagcagc ggccctcccgc cctcgccggg cgaggggctg 240
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 ttcaacggcg gcttcaacca gcccatcatg tgccggcgag agccgaggca gatgacgctg 360
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 g 421

<210> 13835
 <211> 412
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB36-004-Q1-E1-A8

<400> 13835

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 caagcgtaag ggacgcggta ttgctgcagg ccagggcgcg agctgcgggt tcggtatgcg 120
 cgggcagaaa tcgcgctcgg ggcccggcgt cgggcgcggg ttcgaggag ggcagatgcc 180
 gctctaccgc cgtctcccca agctacgggg cattgccggc gggatgcaca ttggcctgcc 240
 gaagtatgtg ccattcaatt taaaagacat agtgcgcggc ggattcaaag atggtgacga 300
 aatatcactg gaaagcctga aatcacgggg tctgatcaat ccatcaggca gggaaaggaa 360
 gctgccgctg aagatcttan gagatgggga tgtatcagtt aagttgaata tc 412

<210> 13836
 <211> 425
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB36-004-Q1-E1-B1

<400> 13836

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 cacggcggcc cgccgcagcc gcaggggagg ccaagtctgt gggtttcctg gagaagtacc 120
 cggcctggt cactggettc ttctttcttca tgtggtactt cctcaacgct atattcaaca 180
 tcctcaacaa gaagatctac aactacttcc cctatccata ctttgtgtcc ttgatccatc 240

tagtagtggg tgtcgtatac tgcctcatca gctggagtgt cggctctccc aagcgagcgc 300
ctatcaatgg cacgctcctg aagcttctct ttcagtcgc cctgtgccat ggtattggtc 360
acatcactag caatgtgtcc ttcgctgctg ttgcagtctc atttgcnac actatcaaag 420
ctctg 425

<210> 13837

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-B10

<400> 13837

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cgtcaaggcc cgctccggcg gctgcccgcg gttgcccgcg gaggaggccg agttcgtggc 120
cgagatcgac gcggagaccg agaagatcaa cgcttcttc ctcgaccagg aggaggagtt 180
catcatccgc caccgggagc tgcagaacca catcgagcgc gcgctgggcc gcggcaggcc 240
caggccggcg ccggcgctgc acgaggccga ggtcgccgc atccgcaggg agatcgtcaa 300
cttccacggc gtcattggtg tgctcctcaa ctacagcagc atcaactaca taggcctggc 360
caagatcctc aagaagtacg acaagcgcac cggcgcgatg ctgcg 405

<210> 13838

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-B12

<400> 13838

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agaactgatt caagaagcta ttgatagttg ccagttgac tgcattcact ggacttcagc 180
tgcgcaactg tcgctccttg aggatgaaat gcgcagagtg gagagagtaa atgttggtatt 240
aatgcttgct gggatgggag gctcaattga tgtgtttcgg atggcaagtt cacgctggga 300
gaaaagacaa gccaaagtcc tggagaaggt cagaaggcgg atgagccaag atgattccag 360

aaaggggtggc tcatggagtg acatctgggg ggcaccaaca agatacgaga agaacgaag 419

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-B3

<400> 13839

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ctaggcttat tggttgagtc aaacatgagg gaatcaaatg ggaatgcaaa actcgggaatg 120
actaccgaag atataatcga ggaatgcaag ttattttact ttgcaggtat ggagacaaca 180
tcagtcctgc ttacatggac gttaattctg ctaagcatgc accctgaatg gcaagagcag 240
gcaagagaag aagtttttaa ccactttggg atgggtacac cagactttga taacttgaac 300
cgctgaaga ttgtaaccat gattttatat gaggtcctta ggttgtaacc accagtagtt 360
ttcctatcca gaagaaccta caaggaaatg gagctcggtg gcatcaaata tcct 414

<210> 13840

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-B7

<400> 13840

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ccttgtctgg catgtatggt gtagccttct gcaatttttt tttgcgctgt tggactcctt 180
gtccggcatg tatggtgtag cttctgcaa ttttttttgc gctgttggat tatgattatg 240
aatgcaatcc gacgctgccg tgcaaactg aggcctatgt ctgaaacaaa aatgtaggca 300
gagtcgattc ttaccagata gatttagtgt ttattttttt ggagagatat aacgagaata 360
tagtactgtt gtaaattcct gtatattatg caatcaactt ggacgtgtgt atcag 415

<210> 13841

<211> 412

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-004-Q1-E1-B8
 <400> 13841
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 gcccgggatc tcgccgtcgc tcaagaactt cctcctcagc atcgtctccg gaggcgtcgt 360
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<210> 13842
 <211> 310
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-004-Q1-E1-C1
 <400> 13842
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 ccgcgggtcc ccggagcccc tgatggtgct gcgcaccaag gagatcaaga acgggcccgt 180
 cgccatgctc gccttcgtcg gcttctggtt ccaggccgtg tacactggcc agggcccccac 240
 cgacaacctg ctgcgcgacc tcgccgaccc cggccactgc aacatcgtct cggcgttcac 300
 gtcccactga 310

<210> 13843
 <211> 391
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-004-Q1-E1-C10
 <400> 13843
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa agggggggcc gcccaagggg 180
 ttcaaacttt acttaccctt gaatgcaatt ttatacctct tcaagagggt caccaaattt 240
 aatttcaagg gcgttttttt taaaacttcg taatgggaaa aacctgggggt ttaccaaatt 300
 taaccctttt ggaaaaaatc cccttttccc aattgggggt aataccgaag gggcccgaac 360
 tttttccctt tccaaaaatt tttgcaccct a 391

<210> 13844

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-C12

<400> 13844

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 agcccaggct gccggtgcac ctctacagcg cgaccgaatg aaaaccagggt tctctatata 240
 caaaactact ggtattgtat atttgaaagt ctacgttttg tatctcataa tgttggagta 300
 ctagtcaatc cgtacattgc cacagtttct atatattaga tgagtaaact ctattttaat 360
 aagacataat agtatgtgtg tact 384

<210> 13845

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-C2

<400> 13845

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 taagttgcag tctgagctctg tcaaggatgc catctcccag attgttgggg atgccaagga 120
 gaagaatagg aagttcactg agactgtgga acttcagatt ggtctgaaga attatgatcc 180
 acagaaggac aagcgtttca gtggctctgt taagttgccc catatccctc gtcccaagat 240

gaagggtgtgc atgcttgggtg atgcccagca tgttgaggag gccgagaaga tgggacttga 300
ctacatggat gttgaggctc tcaagaaaat gaacaagaac aagaagcttg ttaagaggct 360
tgccaagaag taccatgctt tcttggcatc agaggccatc atcaagcaga ttccccgtct 420
c 421

<210> 13846

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-C3

<400> 13846

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gtccaaaagg ttaccttagt tccaaggggt caagctcgtg gtcttacatg gtttatcccg 180
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ggtgacttgc agcaaattac tggcttagcc aagcagatgg ttgtgacatt cggtatgtct 360
gaaattggtc catgggtctct gatggagggt ggagcgcaga gtgggggaact catca 415

<210> 13847

<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-004-Q1-E1-C4

<400> 13847

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gccagccacc catatttgtg caggattaca ttacatatgt acacaatttt ctgtgtatat 180
acacacacgg attcgacaag tatcttcatt tccaaatgtc ctcttccctt cttccgagta 240
cctgaatcac accggcaatg gctgcgccga tgatgaacca agtcaccccg gccagaacga 300

tcttcatttc aaagctgttg acgactccaa gagcgatggc gccgccaaca tgctcctgaa 360
 tgccgctgcc acctccggcc acctgctccc cgtttgtaact cacgaacccc gccgcgacga 420
 tccccaatag ca 432

<210> 13848

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-C5

<400> 13848

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 ggcctcatgc gggatcccat gctcgacctt cttcatcgaa gatgtggtat ggacaaatat 180
 acatgcgact ttccagatga agtgaagaga ccaaattgtg atgtcaatca atctctagat 240
 gaaggaatga aaggaaggag ctaagttatt gcactggatg tacgggggtct agaaaagggtg 300
 tcactttgat gccatttatt agtgctgttg tacaaaagaa aagggttgaat tgatgaattc 360
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<210> 13849

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-C6

<400> 13849

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 tgtggctcgg cgagctctcg tggcgctgc atgggacgtg gcaggcgggtg gccgtggccg 180
 ccacccacgg gctcggcgag gacgacgacc cgcggctgcc gtgccagcag cagcagaggc 240
 cgtggcgagg cgacgacagg agcagcagca acaccaaggc gttgcgagga gccgcggcgg 300
 ccgggacagt caggcgggag ggggacgtcg cgagggtcgg cggcgccatg tccgacacca 360
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cgccgcgcg

428

<210> 13850

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-C7

<400> 13850

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tcggcgctcg ccagcagcgc ctccaccacc cgacggcgct ccccccgcg ctgggtctc 180
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aagatcacgg aggccatgaa gctggtggcc gccgccaagg tccggcgcg gcaggaggcc 300
gtcgtctcct ctgcctctt ctgggaggcg ctggtggagg tgctctacaa catgaaccag 360
gagatccaga cggaggacat cgacctgccc ctaccccgca cccggcccgt caagaag 417

<210> 13851

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-C8

<400> 13851

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cggcaagcac ccatgggacc tgatgaccaa ctccggcgac gaaggccaat tctcaacat 120
gctcatcaag ctcatcgagg ccaagaagac catggagatt ggcgtccaca ccggctactc 180
gctcctcggc aacgcgctcg caatcccgga ggaccggacg attttgggca tgggcatcaa 240
ccgcgagAAC tacgaactaa ggcttccttg catcaacaag ggccgctgg gccacaagat 300
ctacttcgcg gaaggccccg cgctccccgt cctggacgac ctggtggcgg gcaaggagca 360
acacgggtcg ttgcacttcg cttcgtgga ggccgacaag gagaactacc tcagctagca 420
agaacgggtc ccgaaactgg tga 443

<210> 13852

<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-C9

<400> 13852

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tgaagttgtt ctcattacct gccgccttga gaatccagat ttggadaagg tgaatggata 180
tcaaagtgac aagctcgaaa acttcgggaa tgagctgtac gagatgagat tcaacatgaa 240
aacgggtgct gcttcacaaa agcaattgtc tgtttctgct gtggattttc ctctgtgttaa 300
tgagagctat actggcagaa agcagcggta tgtctactgc actatacttg acagcattgc 360
gaaggtgact ggcatacataa agtttgatct gcatgctgaa a 401

<210> 13853
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-D12

<400> 13853

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tccttccggc gagaaatagc tccacgggca ctgggccgcg gatggccgcc ttgagctgca 120
gacacaacca gtccaccaat gtccaaggac gaacagggct cagaagccac gtaacgacgc 180
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gtgcagcaga agctagaact tcgaggttgg agaacaaaaa gaaagccctg gagaagctcc 300
gggagaaggc gttggggcca aaggaggaga acggagccac cgggtggcaag aagatgccgc 360
ctccgacgaa cttgctaata cgataatccc tcgtccggcc gtcgtggcta a 411

<210> 13854
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-D3

<400> 13854

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accactggt catacttact gctaaggaca atattgatgc agcagctgat gaagttttag 120
aacctctcgt caggaaaatc agggatgaaa aatatggatg gaaatatggc tgtggagcca 180
atggctgtac aaaacttttt catgctcctg aatttgtcca caagcatttg atgctcaaac 240
atcgagacct tgtattgagt tctacgtcaa aagttcgata ggatctttat ctccaaagct 300
acatgagaga ccctaatacga ccatgtggaa gccactgat gcaactgtca gcaccagaca 360
gatgaagacg gagacctagc atggacagtc gtatgaaatt tgacca 406

<210> 13855

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-D4

<400> 13855

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agaacccatg acagagtgcg tgctgtcaac tgtcgccctac aaagggttact gccccaggat 180
tcgagatcct gagcttttga tgttctctag aaattctttc ctttttgggt tgaagaggag 240
attgttgtag atgaaaagcc atgcaaccaa tatcccgact agttcaaaga gaagaggaag 300
gaccgggagc ttgtcgatga tctcaatgag gttgaccgaa gcccataatg cagctactgc 360
ggcaaagcct ataccagcta gggcaaaaat gtcttccgcg gtactgatag agctcgcgac 420
gtattttcact 430

<210> 13856

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-D5

<400> 13856

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catctacttg aaggcgcac cgtatctgag cgaggccgag cggaagacgg tgtgccgggt 120
gatggactgc cagaagctgt cgcgcgaggc gtgcgcgcac gcggcgcaga acaatcggct 180
gccagtgcag acagtgggtc aggttctcca ccacgagcag cggcgctgc gcgaggcccc 240
tacgtcgtcg ttctacggcg gcgagtcctc gaccccgggc ccgagcctcc agggccggca 300
cggccggagc gtgccggacg agatgtcaca gctgcagcgg gagaacgagg agctcaagat 360
ggagctgctg cggctgaaga tgaacctgag ggaccgctcg gggccccgcg aggccagc 418

<210> 13857

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-D6

<400> 13857

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gctactccgg accggctgat cgaggtgaag gtcacggcgg acaacagcag ctgcatccgc 180
tccatctcct tcactacat cggagccgat ggcaaaccgt acgaggaggg gccatgggggt 240
ttcggccatg ctggcacgga gtacaagatt gatctgtgca ggttcgacga gagcttgacg 300
gagatctccg ggaccacggg ccagcctac aacattgaca atctgggtcaa gtctctcaaa 360
ttogtcacca acaaacgcgc ttacggaccg tacggcaggg acgaaggcac cccgttccgt 420
gtc 423

<210> 13858

<211> 86

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-D7

<400> 13858

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actgcagaac gtttgacacc cacggc 86

<210> 13859

<211> 417
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-004-Q1-E1-D8
 <400> 13859

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 atgaatgcga ggagacgact atgcatgatg tgaacaacat cgaggaagag atgcgcagga 180
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 agagagtgca gtgcgcgcaa cagtaagcag actatcatca aggcaattgg gaggggtggt 300
 gcccttaaag catgggagtg atctctgggt ttgctgtcgc cgagctggga aataggaagc 360
 tgaatcgacc tcgcaaccgg gaatgtatcc ttttttgctg caacataaaa aatgcta 417

<210> 13860
 <211> 406
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-004-Q1-E1-E10
 <400> 13860

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 aatcttcagt tctgcaacat gattggcaac cacaacatcg catccttgga gaaaaagctc 180
 tgggtggtgcg acatccttgc ataggcagca gacaagatga gccattgctg gaaggggctc 240
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 cggctcttcag gtttttgggt cgcattgccg tcattatggt gggcttccac attgttcaag 360
 gaccagttgt tttagggggc gctttctagc ggagtgtctg tttttc 406

<210> 13861
 <211> 405
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-004-Q1-E1-E12

<400> 13861

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ccaccacaag aaggacgagg agcagcccg cggcgagtac gggactccg agaccgaggt 180
ggtcaccgcc accggcgagg gcgagtacga gaggtacaag aaggaggaga aggagcacia 240
gcacaagcag cacctcggcg aggccggcg catcgccgcc ggccgcttcg cactctacga 300
gaagcacgag gcgaagaagg accccgagca cgcgcacagg caaagatca cggaggaggt 360
cgctgccg cgggccgtcg gcgccggcg ctacgtattc cacga 405

<210> 13862

<211> 334

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-004-Q1-E1-E3

<400> 13862

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atacaacgct gcatgcatgt gtgcacgtgt agttgattga gtcagcgcc gcttgacggg 180
atcgaagtta gagacagcga cgacggcgcc gacgatggcg acgagcacga cgcctccgga 240
gacgatgctg aggangaagt tcttgagcga cggcgagatc cggggcgcg cctccgcgac 300
ctccggcagc accagcgccg ccgccacggg cgcc 334

<210> 13863

<211> 399

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-004-Q1-E1-E4

<400> 13863

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aatggcggaa tcgacaccga gaaggattac ccttacaagg gcacggacgg acggtgtgat 180
gtcaacagga aaaacgcgaa ggttgtcact attgacagct acgaagatgt accagcgaac 240
gatgagaaga gtctgcagaa ggcagttgca aaccagcctg tcagtgtcgc aattgaggct 300
gctggcacag catttcagct ctacagctcg ggtatcttca ctggaagctg tggaacacgc 360
ctggaccatg gtgtcacngc cgtcggctac gggacagag 399

<210> 13864

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-E5

<400> 13864

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acagtgggac ctctacggct ctgacgcgcc ctgcacctac aaccgcctac agagcaagtt 180
cttcgagacg ttgcgggctc cgttcaccaa gagaggctctg ctgctcaagt tctgctgct 240
ggggggcggc tcacttctgg cctacgtcag cgcgtcggcg tcaccggacc tctgccgat 300
caagaaggga cctcaggagc cgccgcagcc gggcccgcgc ggcaagatct aagctcagct 360
tctccatttg catggtctag tagcttgctt tgtactgcta gcgccggctg attcgtcgc 419

<210> 13865

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-E6

<400> 13865

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gcagcaggag gttgcagcag gcagcagcga cgacagtctg ccaactgccgc tctgctcgag 180
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aggagggcctt cactacgtac gaggatgagg ccaacaagtt cagcattcaa gttccgcaag 360
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<210> 13866

<211> 417

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-004-Q1-E1-E7

<400> 13866

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gccatgctcg gcgcgctcgg ctgcgtcttc cccgagctgc tctcncgcaa cggcgtc 417

<210> 13867

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-E8

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tgt 423

<210> 13868
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-E9

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cagcgtcttc caccggggga gcaacctggc caccaagggc atgggcgcca acctcttcga 360
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<210> 13869
<211> 403
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-004-Q1-E1-F1

<400> 13869

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tgcgacaata tgcatctaca tataaagtta ttaagaccca taggaaagag aagtctaagt 240
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tccaattcaa gataagctga gcctttctca gcagctgatg tagccttctg gcttgatgaa 360
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<210> 13870
<211> 405
<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-F11

<400> 13870

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cagcgtcgtc aaggccgcca tccagcccga gaaggcaacg taccaggtgg tgcagcccat 180
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cgaggtcggc ctgcgccacg gctacctcct cgtcgggccc ttgcgctca ccggcccgt 360
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<210> 13871

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-F12

<400> 13871

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ctatgttccg ggtgaagggt ctgaacacgc tcccatacga atcagcaaga agtgggaagc 240
agcaggggct gcagcaagag caagtccctc aggcagcatg aatggagaca ccagtcacca 300
tcccatcatc agcgacactg tactgtatag caatcgggag atacacgata ctccaacgcg 360
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<210> 13872

<211> 412

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-004-Q1-E1-F2

<400> 13872

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tcnccggcaa gtgagggagg cgccgcgggt gacctttagg tgtccggatg catgtgagcg 360
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<210> 13873

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-F3

<400> 13873

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gaggagcacc acttcgaatc gaaggccgac gccggagcgt ccaagaccta cccgcagcag 180
gctggcaccg tccgtaagaa cggcttcatc gtcacaaaga accgcccctg caaggttgtg 240
gaggtttcta cctcaaagac tggtaaagcat ggcatgcca aatgccactt tggtgccata 300
gatatatcca acgggaaaaa gtcgaagat attgttcctt cgtcacacaa ctgtgatatt 360
cgcgatgtga accgtactga gtatcagctg attgatatat cagaagatgg atttgtgagc 420
cttcttactt ca 432

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<210> 13874

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-F5

<400> 13874

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cgtttttaggg tttggaacat tgagattgag gtaatgcgtc ttgtccagcg ttgttttggg 180
 ctggactgtg aatcagaata gaaacgttgc atgatcgaat tgcgccatta gatctcataa 240
 tcaaaaaacg tggatgattc gacaaaaggt atatttatct ggatgtttca tgttaattca 300
 tgtcacatgg attccttc 318

<210> 13875

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-F8

<400> 13875

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 acaatgtggg gctggagatg actacaagga tgggatatga ggtgcgtttg gtgcggatca 120
 tagaaatggg ccatgacgca tactattctc gactatatct cgcaaagggt gggaatgacc 180
 aagacactat cagtttcgac ctcaagccat cggatgctat caacattgct ttccgctgca 240
 aggtccctat acaagtgaac aggcgtatcg cgtataacaa cggattgaaa gtcctacagc 300
 caaaggcggc cgggagttat ttaggctccg acgacattca aatccaaagg gctgacaggc 360
 ctgacgacca acattgcagc cagggccaag aattcgatct ggtccggaac atg 413

<210> 13876

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-G10

<400> 13876

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 gccctccggg ggactccccg ggactctgaa ctctgaccag gcgagggact tcgacctccc 180
 cttgaaggag cggttctacc tgcagccgct gccgccggcg gaggcggtgg cgaggggtgaa 240
 gacgtcggcg caggacatca tcaacctcaa gccgctcatc gacaagaagg cgtggccgta 300
 cgtccagaac gacctccgcc tccgggcctc ctacctgcgc tacgacctca agaccgtcat 360

cgcttccaag cccaaggagg agaagcagag cctcaaggag etc

403

<210> 13877

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-G11

<400> 13877

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agcccgacgg cgtccagcgg ggcctgatcg gggacatcat cagtcgcttc gagaagaaag 120
ggttctacct caaggggatg aagttcatga acgtggagag gtccttcgcg cagcagcact 180
acgctgacct ttccgacaag cctttcttcc ccgggttggg ggagtacatc atttcgggcc 240
ccgtggtggc gatggtgtgg gaggggaagg acgtcggtgt gactggccgc aggatcattg 300
gggccaccag gccttgggag gcagcccccg gtaccattcg tggggactac gccgtggaag 360
tcggcaggaa tgtcatccat ggaagcgact 390

<210> 13878

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-G3

<400> 13878

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cgtccgtgga agaagatgtc gtacctgctg ccgcatctgc actcggggtg ggcggtggac 120
caggccatcc tcgccgagga ggagcgctc gtcatcatcc gcttcgggca tgactgggac 180
gagacctgca tgcagatgga tgaagtgtg gcagcagtag ctgagaccat agagaacttt 240
gcggtcatct acctgttga catcacagag gtccctgatt tcaacaccat gtatgagctg 300
tacgaccctt cgacagtgat gttcttcttc cggaacacgc acatcatgat tgatctcggg 360
actgggaaca gcaacaagat caactgggcc ctgaaggaca agcaggagtt catcgacatt 420
gtg 423

<210> 13879
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-G4

<400> 13879

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ggcaggccgc caagaaggct gcgctgtccg tgccgcgctc gtccacgctg gggggcgccct 120
tcctcgccgc gctggcgctc tgcgccgacg ctgcgctggc ggacgtggcg gggcgggacg 180
ccggcgccga cagcccgccg cacctgctgc tcgtcgtggt ggcccccgc accgggtggg 240
tgctgtacac aatcctgcac ccggggctga accagctgaa ccgcatgcgc agcagccagg 300
ccgttgcccg ccggcctggg cctcgggtgcc gggcccgcg ccgggaatgg cggccccgc 359

<210> 13880
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-G7

<400> 13880

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gtacgacgac gacgacgcag gcgccacaca tggcatccca gctctccgcc gccgtgcccc 120
ggttccacgg cctccggggc tacgccgcgc ccagggtccgc ggtggcagcg ctgccgtccg 180
tgagggtggg caggaagagg tcgtcgtcgc agggcatccg ctgcgactac atcggtccg 240
ccaccaacct gatcatgggt acgacgacga cgctgatgct gttcgggggg cggttcgggc 300
tggcgccgctc ggcgaaccgc aaggcgacgg cggggctgaa gctggaggcg cgcgactccg 360
gcctgcagac gggtgacccc gccgggttca cctcgcgcga cacgtggcc tcgggcgccg 420
t 421

<210> 13881
<211> 426
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-004-Q1-E1-G8

<400> 13881

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acatggccgc cgccaccatg gctctcacct cccgcgcgct cgtcggcaag ccggcgacca 120
gcaccaggga cgtcttcggc gaggggcgca tcaccatgcg caagactgct ggcaagccca 180
agccagcggc gtccggcagc ccctggtaag gggccgaccg cgtcctgtac ctgggcccgc 240
tgtccggcca gcccacaagc tacctgaccg gcgagttccc cggcgactac ggctgggaca 300
ccgcggggct gtccgccgac ccggagactt tcgccaagaa ccgcgagctg gaggtgatcc 360
actgccgctg ggccatgctg ggcgcgctcg ggtgcgtggt cncggagctg ctgcccgcga 420
acggcg 426

<210> 13882

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-G9

<400> 13882

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cgcgtcgagc tcgccaatc ctcccagctt ctccctgtgc tcgctcctg actttgcca 120
gcacctcgtc aagctcctcc atgccggcgt ccctgcttct cttctctgcy cccatggccg 180
agcggctcct cccacggcgc gccgagctcc agctcggatt cgagccgtct tcaccgtcca 240
cgcgacccct gtttctcctt ggtgaaact ctttcccatg gccgtggttc tccaagtttc 300
cctgccggtg cccattttct tggtcgcgag caagctctcg cgcacgctg gcttgttcgt 360
gcgctcgtc cagcggattc ctctacgtca gggccctgct cgaccgtgcy cctc 415

<210> 13883

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-H1

<400> 13883

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gatgccactc tttaaaatga aaaaaaggag taatcagctg tgacacggaa agaaaacgaa 120
tcctttttgta gctcgtcatt tattggcaaa aatcgaaaag gtcaatatga aggaggagaa 180
agaaataata gtaacgtggt cccgggcac c tagcattcta cccgcaatgg ttggccatac 240
aatcgcgatt cataatggaa aagaacatat acctatttac ataacagatc ctatggtacg 300
tcgcaaattg ggggaattcg tgcctactcg gcatttcacg agttatgaaa gtacaagaaa 360
ggatagcaaa tctcgtcgtt aattgaattc aggatagaaa gattcagaat agacaaga 418

<210> 13884

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-H11

<400> 13884

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taccgcgtcg ccggcggccc gtcgggggag gtggtcgacc cgctgtaccc tggcggcagc 120
ttcgacccgc tcgggctcgc cgacgacccg gaggcgttcg ccgagctcaa ggtgaaggag 180
atcaagaacg gccgcctcgc catgtttctc atgttcgggt tcttcgtgca ggctatcgtc 240
accggcaagg gccccctega gaacctcgtc gaccacatcg ccgaccccg caacaacaac 300
gcctgggctt acgccaccaa cttcgtcccc ggcaagtgag cgagggcatg atgcttgcat 360
gcgtgtaccg 370

<210> 13885

<211> 214

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-H12

<400> 13885

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agctaggaaa cagctttccc tctcttaatt cgttgtgttc gtggtgacat aatctgtgtg 120
cggaccgaat ttagaataaa gtacaggcgt ccgtctgac aaataagcac cgggtgttggt 180

gctctataga tgaatatatc cggtgatttt cggc

214

<210> 13886

<211> 125

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-H3

<400> 13886

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caccctcttc cgccgtcgcc atggcgagcg ataaccgcgc gttgctcctt cccttcgccg 120

ccgcc 125

<210> 13887

<211> 480

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-H4

<400> 13887

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gacagccgtc ctcttcttgg ctctcaacct cctgttcttc acgggtggcca acgcctgcgg 120

caactgcccc accccaacgc ccccggtcga gccaccgcgc ccgcctcctg ctgctacccc 180

accccccttcg tccagcggca agtgcccgtc gaacgcgctc aagttcggcg tgtgcgccga 240

tgtgctcggc ctcgtaaag gcgaggttgg caaggtgcct gccgagccat gctgtaccct 300

catcaaaggc cttgcggact tcgaggccgc cgtctgcctc tgcacggcca tcaaggccaa 360

cgtgctcggc gtcgtcgtcg atgtcccat caagctcagc gcgctcgtca actactgtgg 420

caagtgcgtg cccaagggct acatgtgcgc gtaagcagct ccgggcgggtt acacgctcgt 480

<210> 13888

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-H5

<400> 13888

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 gaccacagca acaagtccca ggtggtttca gctctggaat tcaaggatca ccgagtatca 120
 cctgtattaa attggcaatc tcactttatg tgcagtctag agtatcgttt ctatgtgctc 180
 agcttgacg tattgtattc tttaattaca gctacttgga gatttggaag gacctggctt 240
 gcaacgtagt ataatctctc gtcttttttc tttgtggcaa tatataattg ctatgaatac 300
 cagattgaga tggttgcaaa cagaacaaaa ggaaacgagg atgtg 345

<210> 13889

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-H6

<400> 13889

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 cgagttcggt cgatcgtgac cgtgacgcag gaagctataa gctagccaag acaggaataa 120
 taatggcggc gtcgacgggt gcgagcctct ctgtcccggt gacgacgacg accttcgagg 180
 cggcggggcg cggcgacgtg ctgatcgtcg tcccaggagg ggccggggcgcc aagcgcgtcg 240
 tctggttccc cgcgggggcg cgccgcggcg gcgggcggtt ggtcgccgtg cgggccagcg 300
 ggccggccac gccgcggag atctccgaca aggtgtcgga gagcatcaag caggcggagg 360
 agacgtgcgc ggacgaccag aagggcgacg ccgagtgcg 399

<210> 13890

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-H7

<400> 13890

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 tggaggaggg tggctccgac tacgagatcg tgcccatcaa ctctgccacc gccgagcaca 120
 agagccccga gcacctcgtc cgcaaccctg ttggtcaggt tccagctctg caggatggtg 180
 acttgtaact ctctgaatca cgagcaatct gcaagtaacg tgctcgcaaa aacaagccag 240

agctgttgag ggaaggaaac ctcgaggagg cagcaatggt ggatgtttgg atcgaggtag 300
aggctaacca gtacaccgct gactgaatc ccatactctt ccaggctctc atcagtccta 360
tgcttggggg aaccaccgac cagaaagttg tggatgagaa ccttgagaag ctgaag 416

<210> 13891

<211> 210

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-A11

<400> 13891

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agagagggttg gcgggggagg cgcggccgag ctcgtcgggg ctaacaccgg cgaagccggg 120
ggcggtcgag gtgcagcgcc gacgggcggg cagcggttgg acgagccgtc ggatctccat 180
ctacgcctcc cgagtctact tcctctcat 210

<210> 13892

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-A2

<400> 13892

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tgagctgtgc ctggggagtt acaaccatg gaggagccaa ggggtgtggc gagtctacaa 120
catctgcctg agttgtttcc ttggttggaa tcttcattgc agactttgct ctctcgtgcc 180
tgttcttcca ggggtgctggt gattcgctca agtatgcaat gggttgaggt gggtcagtgc 240
agaggaagtt ttttcctttc taggaggata gcatagtctt gtacattaaa aagagtgggtg 300
cactggattc tagtaggtga acattgcaac ttctgccaca gtccaggtga catgcatagt 360
tgtttccctt tgatacctac gacaatcatt acctttgttg tactgaactg ct 412

<210> 13893

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-A3

<400> 13893

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cacccaaagg tcagccagga gctcagggtcc atctggatag acctcctcgc caaggtagct 120
ggatggcatg gcatggcagt ggcacacgtg ttttcgttcc atctagctac tcatgcatga 180
tatatatacg attgctttgc atatgcagtg cgacgcgtcg ctgggggatga agattgccac 240
ccggctcaac atgaagccaa acatgtgatg catcatgctt gtgctgaata ataataaga 300
cgcatgcatg tcgtcgccag gaacaaagat cgagaaataa tacaagacca gcacgcatgc 360
atgggcatac tctatatata tatatgtata gcccggtgcc gtgcccgcct ttgtaccaat 420
acaagccaaa cca 433

<210> 13894

<211> 410

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-005-Q1-E1-A4

<400> 13894

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tggctactct tcttatgatt acgggagtgc ttcatcgga tacacctcga gaaacactgg 120
gaattcgtcc tccagttata gcgtcaggta cgcgccttct tcggagaaca gtgtacagcc 180
ggagacacat gccaggttgc agaggaagta ttctaagatc ggtgatgact accgttcttt 240
gagccagggtg actgaagctt tggcacaggc aggccttgaa tcttcaaata ttattgtagg 300
cattgatattt acaaagagca atgaatggac aggtaaaatt tccttcaata gccgctgcct 360
gcatgatatt ggaaacactc canaccata tgagcaagct atatctatta 410

<210> 13895

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-A5

<400> 13895

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 ggggcccac ccgtggcacg tgtccttctc ctacgcgcgg gcgctgcaga acacctgcct 120
 caagacctgg ggcgggccagc cggacaaggt caaggcggcg caggacgcgc tgctgctgcg 180
 cgccaaggcc aactccctgg cgcagctcgg caagtacacc tccgacggcg aggccgccga 240
 ggccaaggag ggaatgttcg tcaagaacta cagctactaa ttaatcgccc ggccatcacc 300
 cgggataccg ccgcccctcc gagagatacg tgtgtactga tcatgggtta gcacgtactc 360
 cgatccattc ccatcccatg aagccatgat aatgatgata tgatccatgg accatgcatg 420
 gtgct 425

<210> 13896

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-A6

<400> 13896

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 tgcactaccg gacggcgcg cgcggggaga agctcaggga catcatgctc gacggctaca 180
 togacctata cggggccctac gataaggtgg cggcttgggt cgacgatggc ggctctggga 240
 ctgcacgggg aatgacgggt gagcgtgggt agacaaaacc agaaggagaa atgggaatta 300
 ggggcgagtc ccgactcccg agcggctggc accgaggcga agctcaatgt gacaaggctg 360
 acgacaggag atcaacagcg atggcgacgg tggcggccct actgcgtgct ggggtggggaa 420
 ac 422

<210> 13897

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-B1

<400> 13897

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ctactacca ggaggtggac tactgctcgg aggaggtgag gtcggtggcc cgggccggt 120
 tcggccgcca cggaggcggc gtccagcagc acgtcgtcaa ggagaagtcc gaggaggtcg 180
 acacggtctc acgcgccggc gccaaaccacc accaccacca ccatgggtcac cacggcggcc 240
 acggcttcgt ggtgcgcgag accagggctg aggaggacat caacacctgc accggcgagg 300
 tccacgagcg caggagagc ttcctcgcca gggctaactg agccgcccg cggccggcat 360
 ccacgcccg tctgcctgc ctgcgtgcct tatgtatgtc tgtggttgac tg 412

<210> 13898

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-B10

<400> 13898

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 ctctcatcg tcggcgatgg tggaactggg aaaactacat ttgtgaagag gcctctcact 180
 ggagagtttg agaagaaata tgaaccaacc attggtgtgg aagttcatcc gttggatttc 240
 accactaact gtggaagat caggttctac tgctgggata ccgcagggca agagaagttt 300
 ggtggcctca gggatggata ctatatccat ggccagtgtg cgatcatcat gtttgatgta 360
 acctcaaggc ttacttaca gaatgttcct acgtggcata tggaactgtg caaggctctg 420
 gaaaacat 428

<210> 13899

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-B12

<400> 13899

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 ggggatgcct atttaccaga ggcccttcac gaaggggaag ctctacattc atttcacagt 120
 ggagttcccc gactcgctgg cgccagagca gtgcaaggct ctcgagtcgg tacttccgcc 180

aaagccttcg tccaagctga cagacatgga gatcgatgaa tgcgaggaga cgaccatgca 240
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 ctacgaggag gatgacgaga tgcctggcgg agcccaaaga gtgcagtgcg ctcaacagta 360
 agcagactac cataatggga ttcaaggcac tttgggtgct cttcaattat gcgagtgcgc 420
 ctgtggactg tg 432

<210> 13900

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-005-Q1-E1-B2

<400> 13900

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 gacattaccg agctcattgc tgctggcagg gagaagtttg cttcagtccc atgtggcggc 120
 ggcgggtgtg ctgttgccgc agctgcccct gctgctggcg gcgctcctgc agctgaggcg 180
 aagaaagaag agaaggtgga ggagaaggaa gaaagtgatg acgacatggg cttcagcctc 240
 ttcgactaag cctgtgcaat agtcaagagt attgtttttg agtcgcggaa gcagagggaa 300
 gaaaaatcgt agtcatgttt ggactttaac tttgttttat gttggaaagt acttgaaaga 360
 cttttcctgt ggtaattcta ggcgtagggt gctgtgctgg ttggggttta ctggtgaacc 420
 anagttttt 429

<210> 13901

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-B5

<400> 13901

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 ctgccactgc aagaacctgt gcatcaagac caaggccaca gaaaatgatc agtctgctaa 120
 aaagcatcag aaggtgaaga gcattctttg ccaggactgc gaaggaaatg gggcaatcgt 180

atgcacaaaa tgtgaaggaa atggggtaaa ttctgttgac tattttgaag gccgatttaa 240
agctggatct ttatgctggt tgtgcagagg caagcgtgaa atcctatgtg ggaactgtaa 300
tgggtgctggc ttcttgggtg gattttctaag cactttcgat gaaactgcgc aatagtcac 360
ggtttagcac ttctgatgaa actgcgcaat agtcacgggt ttaatttatg ttttaagttac 420
attgaggg 428

<210> 13902

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-B7

<400> 13902

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agattaggcc gatgggaaac tatgcagttt ctataacttg gcctgatgga tttagtcaga 120
tagcacctta tgaccaattg gaaatgctgg agcggttggt ggaggctccg agtccagcag 180
cagcgtctgc agtggcctcg tcatgatata gcagaaagaa tgttcagtta gcaaggggca 240
agaaggccga ctttttagctc ccagaaaatt tatagctctg ctacaaattt tgaaagaatt 300
ttacagtact gtagaacat gctcattgaa ttttaaaaaa aggcagcagc tttcgttc 358

<210> 13903

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-005-Q1-E1-B8

<400> 13903

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agctgcaccc cggtgggccc ttogancccc tgggcttggc cagcgacccc gaccaggccg 420
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<210> 13904

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-C3

<400> 13904

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tggaggggta tgaagagaaa aaaacagtgc ttaacattgg ggaacatgtt gaatctttag 420
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<210> 13905

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-C4

<400> 13905

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atgttgaaga ggtcgtgaca actgttgaga tagatgatga aacatatgaa gaaattgtgc 300
gcaccacgaa acgcactatg ccttttcttt ttgtccgagg tgatgggtgtc atattggttt 360
ctccacccc 369

<210> 13906
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 13906

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gtgaagatac atactactct cggacaagaa gcatgctgca caaactgggt cttgaaaagt 180
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aaagggaccc cgagctgggt caagcaaagt agcagtcaca attgtcgaca gctgggttctt 360
tctgggttgc atanggtttg aaagcgatgc cgtctctagt ttcttaataa actttctagg 420
caagca 426
  
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<210> 13907
 <211> 414
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 13907

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ccagggcctg gacggcctg cgtcncgca ggccgcctac taccagcaag gcgcgcgggt 360
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<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-005-Q1-E1-C8

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cgctccgccc tcctccctcg gcgcagcgtc tgccagcttc gcttccaaga tgcaccgagg 180
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ggcggcgggcg ccgtcgtcgc cctttggctg acgtccgtgg tcgtggggcg catcaacgcc 360
gtgccgctgc tccccaagat cctggagctc gttgggctcg gctacnacgg ctggttcgtg 420
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<210> 13909

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-C9

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ccacctggag cgacaacgag tacgcgcccg tggacctgca gtctatctgc tactactccg 180
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ccttcgaccg cctcggcatc ccgtcagcg agcagaagcg cctcgccaac gtcgctgtcg 300
acgcggtcat cgactccact tccatcgcca ccaccaccg cgaggcgctc atggccaagg 360
gcgtcatctt ctgtccatc tccg 384

<210> 13910

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-D12

<400> 13910

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ccaatgctct agggctgcct gcgctgaggg cgaggagcga gaggggtgcgg tgcagctacg 180

ccaaggacgc ggccccagtc agcaccaagg gcgcaggcgc gtcgctgctc gccgcagcgg 240

gcgcggtgac cgcgtcggcg gggccccgcg tggcgctcgt ggacgagcgc atgtccacgg 300

agggcaccgg gctgagcctc gggctcagca acaacctgct ggggtggatc ctcttggggg 360

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<210> 13911

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-D2

<400> 13911

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cgaaaagggc ttccctttcc aagggtcaaag atatagactc tgttactcta gaagatgcaa 180

tcgagctttt gcaatatccc aaaattttgg gaaaacatcc tgaagatgat tatcctgtac 240

ttataacaca ttctaaagtt ggatacaaca tcaagcatag gagatctcta gctctagtgc 300

caaagagtgt tgacccaaag aagatgacac ttgagcgtgc gctcaagcta ctaagcggta 360

aaagtgtcag acg 373

<210> 13912

<211> 413

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-005-Q1-E1-D4

<400> 13912

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 ggcgaggaac cccctgatga gcaggaacct ggagaggaat ggcaggatca cctgcatgac 180
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 gatggggccg tccagcgtcc cggccatcaa cggcaacagc ctcacggggc tcttcttctc 300
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<210> 13913

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-D5

<400> 13913

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 aatgacaagg ggaagaaggc ccccatctca cggctctctc gcgcgggcct ccattttcct 180
 gttggacgaa tccaccgtca cctgaagcaa aggactcatg caaatggccg cgttggtgcc 240
 actgcagccg tctactctgc tgccatcctg cagtacttga ctgccgaagt tctggagctg 300
 gatgggaacg ctatcaagga tctgaacgtg aatcgtatca cccctcgcca gctacagttg 360
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<210> 13914

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-005-Q1-E1-D6

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 cctgttggtc gaattgtgaa gaggtaggag tttctgaagg ctgcanngac tgctatggaa 420
 acaaanacat atgcagg 437

<210> 13915

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-D7

<400> 13915

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 gcagttgtca tccgaaactt gaaattggtg aagggcgatt caaaagtcac agttatggat 360
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 ccttacct 428

<210> 13916

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-D8

<400> 13916

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ttgaaatagt agtctaattc aacttctttt ttcactgcat ccacttaatt tcaatcaagt 360
caaatcaaaa aaaatcgaag ataattcttc attgaaagaa tccaaagagg gggagaaaaa 420
taatacgaga ataga 435

<210> 13917

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-E10

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acggtctttg gaaggatgat aacaatc 387

<210> 13918

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-E11

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gcaacctcca gcactggtag gggctcttgc actctaattg cgggggtgggt gggatctcgt 360
ctgaataagt tctctcgaga cgtag 385

<210> 13919

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-E12

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gctaaggatg taacgagttg ggcacgaata ctaccacgag tcaactatct tgtgctggaa 360
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<210> 13920

<211> 133

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-E2

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<210> 13921

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-E3

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tttgaccaaa 430

<210> 13922

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-E4

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cactgtcttc gcgcgcggcc ccaagggacg gtgtctctt cgccggcgca ggcaacacga 180
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ccacgtacga caacggcgaa ctggcctact tcgacaacgt ggtgcgcggc aacctcagca 360
agggcgcgct c 371

<210> 13923

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-E5

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<210> 13924

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-E7

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<210> 13925

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-E8

<400> 13925

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gctgcggtgg catcagggcg ctctctccc tccaggacgg cgcacctgac accttccact 360
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<210> 13926

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-F10

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<210> 13927

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-F11

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397

<210> 13928

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-F2

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<210> 13929

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-F3

<400> 13929

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cccgccccgg cgatggcgca cgagagtcga gaggaggagg acgacgacga ggcgtataaa 360
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gctcgtcct cgcct 435

<210> 13930

<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-F4

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gggagcagaa ttgggggaac atcatgagga cgcacatgac cagcaggagt ttgagttcgg 180
tgaagttttt gttcaccaac tgattcacac gatagaattt gttctgggtg cagtctcaaa 240
caccgcttca taccttcgtc tttgggctct gagtcttgca cactctgagt tgtccactgt 300
attctacgag aaagtactaa tgacggcata tgggtttaac aatgttttca tccttattat 360
tggtgtcgtc atcttcac 379

<210> 13931
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-F8

<400> 13931

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aaaatcctta actcccaaaa atcaaaagga ttcaacttgt taaaatgtca cccctcaaaa 180
accattacaa caattggatt ttaaaccgga attttcaaaa tctgaataaa ggtgttcgtg 240
gaaatcaggt atcacttctt aacattgttg ttgaattgaa gaaatgctgc aaccatcaat 300
tcttggttga aagtgccgat catggttatg gtggaaatag catcggtgat cggaataaag 360
ttgaacgtat tg 372

<210> 13932
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-F9

<400> 13932

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aaacatgata acgatgaggg gctccaggct gaattgtgaa cgacggaagc gtcacttcat 180
gtacctctga agaaatttac ggtggaaatc actcctgatg gtgtcgttga tgaaccgttt 240
cgggtgtcttg gtctctctc gtgcttgatt cttgaatacc acgtcgtcgt cccaccttct 300
cttaacactg aaggagccag cattgttgat attaatcaac gggtttcccc gcatcagttc 360
agcctccttc atcttggcct cctcttctgc ttgttgccgc tcccttctaa gcttctcccc 420

<210> 13933

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-G10

<400> 13933

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tttttttact taaatttaat aatattaatc taatatgcc attgggtgtc caaaagtacc 120
ttaccggatt cccggagatg aagaagcgac ttgggttgac ttatacaatg ttatgtatcg 180
agaaaggaca ctttttttag gtcaagagat tcgttgcgag atcacaaatc atattacagg 240
tctgatggta tatctcagta tagaagatgg aaatagcgat atttttttgt ttataaactc 300
ccttggcggg tggctaactc caggaatggc gatttttgat acgatgcaaa cggtgacacc 360
tgatatatat acaatatgcc tcggaatagc cgcgtccatg ggctcct 407

<210> 13934

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-G11

<400> 13934

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cacactctca gctagccgcc gccaccgcc tgcactccgt gaggagagcc gaccgctgcc 120

cggcgacaat acacctgggc aagttccatg accacgggct cagggtccggc cgttctaaga 180
gatccgggttc agcgaagggtg ggcgccttcc cgtcgctgga cgtgggtgccg ctgatgggtga 240
cgatgggtgga gcacgtggac atgtcgcggg actacgtcgt gaccaagtcc atctggcatc 300
tcagcgacgc agccctcaag agcgtctata ccttctacgc catgttcacc gtctggggag 360
tctgcttctt cgcgtccatg aaagatccct tctacga 397

<210> 13935

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-G12

<400> 13935

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aacaaaactt tatagagatg atcttttga agacttgctc aaagaacctg atgagataac 120
cataaagagg aagcagatac gtgaaaatct caaggctcctt caacaagctt acaaaacttt 180
ggacgagata ccacttgacg cagaggcagt agagaggggt ggatactccc tggattctga 240
tgcgattgggt ctgccaaggg cccatgggct ttcttcatcc ctccacggat tcaacgatgg 300
aagctcacca tattcaacct cgaagcagtc aagggtcaagg aggtcaaacc attctggcga 360
gcagcttcct ttcaacccca atatgagtgg caatgggttt tgatgccacc ctcttac 417

<210> 13936

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-G6

<400> 13936

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ctcacctcca accatgggta aagagaagtc ccacatcaac attgtgggta ttggatcatgt 120
cgactctggc aagtcgacca ccacaggaca ccttatctac aagcttggag gcattgacaa 180
gcgtgtgata gagagggtcg agaaggaggc tgctgaaatg aacaagcggc ccttcaagta 240
cgcgtgggtg ctcgacaagc tcaaggctga gcgtgagaga ggtatcacca ttgatatcgc 300

tctgtggaag tttgagacca ccaagtacta ctgcacggtc attgatgccc ctggacaccg 360
 tgacttcac c aagaacatga tcaactggtag ctcccaggct gactgtggcg tcctt 415

<210> 13937

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-G7

<400> 13937

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 agcgggtgca gctggccgcy cccgagggcc gccgcgccgc tctgctcggc ctggcgggccg 180
 tcttcgccgt cagggccacc accgggtcgg ccaaggccac gatcttcgat gactacctcg 240
 agaagagcaa ggccaacaag gagctgaacg acaagaagag gctggccacc agtggagcca 300
 actttgcgcy cgcctacacc gtggagttcg gcagctgcca gttcccctac aacttcactg 360
 ggtgccagga cctcgccaag cagaagaaaag tccccttcat cagcgacgac ctcgag 416

<210> 13938

<211> 249

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-G8

<400> 13938

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 tggcgctcagg catcaaacca tgtgcagaat gtaccacatg gcgcgactac aatcgagga 120
 agcaacagct aatacatcta tcgataccga tggacaccta gcttaactac ttgacgggtga 180
 tcttgctgac cactccagcy ccatgatgcy gtccgcaata gacaccatat gttcccagta 240
 ccgtgaggg 249

<210> 13939

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-G9

<400> 13939

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gaaccccgctg caccgcagcg ccggcacctt ctgggggtgtg gggctcggcg tcggctgtgg 180
cgtcggctgg ggccccggct tcgggcctga ggtgattggg tacgtaggcg ccgggtgcgg 240
cgtgggggttc agcgttgggg tcacgctcgc cggcgtcggc atcggcctgc cgcagcacag 300
cctcatcagg aaccacgacc acgggtgggtt tgcgagcagc gtccctgttg attcagcgag 360
attctacgcc ctaaccatca tcagaggtct ggtatgggac gccatcagct a 411

<210> 13940

<211> 277

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-H2

<400> 13940

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gaggagctcg agagggcacc aataatggcc ggcgtgaact ccagcgctcg cgggctcaag 120
cgcgcccgcg cagtgccgca agccgcgcgc gtcgcatcgc cggcgaagcg ggtgcagctg 180
gccgcgcccc atggccgcgc gcccgctctg ctcggcctgg cggcgtctt cgcgctcacg 240
gccactaccg ggtcggccaa ggccacgata ttcgatg 277

<210> 13941

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-H3

<400> 13941

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gatcaacacg agcccgtagc aggacgggtg gatgatcaag gtgaagccga gcagcccggg 120
ggaggcggac gccctgctgg acgccgcaa gtacaccaag cattgcgagg aggaagacgc 180

tcactagacc caggcccgcc cagccagcaa gcgtaggatgc ttaccacgac agtgcgcgtt 240
 tgggtggtggt gatccgctca gtcgttctttt agtggttgcaa aaactccacc aagcagtcgg 300
 ccaatgccgg cgtacctgat gccttcggtt ttctttgtgc tggtagctta ttttttttt 359

<210> 13942
 <211> 204
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-H4

<400> 13942

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 gtccaccccg gtgcgcctgg tgccctacaa gccggacttc ctggaagagt cggtagctgtg 120
 gacggagagc cgcgacgtcg gcaacagctt ccgctgcgtc cgcattggtca acaacatcta 180
 actcaacttc caatccctcc acgg 204

<210> 13943
 <211> 405
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB36-005-Q1-E1-H6

<400> 13943

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 agcaccatgg ccctctcttc caccgcttc gccggcaagg ccgtgaacgt gccgtcgctg 120
 tccgccttcg gcgaggcccc cgtgacgatg cgcaagacgg cggggaaggc caagccggcg 180
 gcggcgctcc ggagcccgtg gtacggcccc gaccgctggtc tgtacctggg cccactgtcc 240
 ggcgagccgc cgagctacct gacgggcgag ttcccgggag actacggctg ggacaccgag 300
 gggctgtcgg cggaccggga gacgttcgcc aagaaccggg agctggaggt gatccactnc 360
 cgctgggcca tgctgggagc gcctcggtg cgttttcccg gagct 405

<210> 13944
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-H7

<400> 13944

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gcgacgagct cgccaagtgg tacggtcctg acaggaggat ctacctgccg gatgggctct 120
tggaccgctc ggaggtaccg gagtacctca ccggagaggt ccctggagac tatggctacg 180
acccttttgg cctgggcaag aagccagagg acttcgcca gtaccaggcc tacgagctga 240
tccatgccag atggggccatg ctcggtgccg ctggcgctgt catcccagag gcgtgcaaca 300
agttcggcgc taactgcggc cccgaggccg tctggttcaa gaccggcgcc ctgctcctgg 360
acggcaacac cctcagctat ttccggcaaca gcaccccat caacctggt 409

<210> 13945

<211> 89

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-H8

<400> 13945

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gtaaaatttg gtaacaagat ttccgctgc 89

<210> 13946

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-H9

<400> 13946

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agaacaagta gagtcccatg gtaaccttgg ctogaagcca ttttagctca taaaataaaa 120
gatccagggg cctgcgtgca tagctgcatt cgctctccag gatttcgtgt aacggagact 180
cgatcctttt atgtagtgtg tgttgttcgg agtaatgttc aaaaactcta ttggcttccg 240
gcttttctga aacattgctc gttaagtgtt tggtttagta catgggttcgc tgttccgtgc 300
tagacgcatg gataggaaaa aaaaagaaaa gacaacaca 339

<210> 13947

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-A1

<400> 13947

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gcaagcctcc gccgccacgc gccacctgct ggccgctgcc tgggcgcggg cggcgaagcc 120
gcggcagctg agctcgcagc tcgcgctgcc gtcgtcgtcc tcccgcgggc cggccccgct 180
ccgcgcgtcc accgaggagg cggtgagggc gcccaagggg ttcgtggccc cgcagctgga 240
ccccagcacg ccgtccccga tcttcggcgg cagcacgggc gggctgctcc gcaaggcgca 300
tgtggaggag ttctacgtca tcacgtggac gtcccccaag gagcaagtgt tcgagatgcc 360
cacc 364

<210> 13948

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-A10

<400> 13948

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ggccaattgg ttctactgaa gaataaaact tgtagggtc ctcgttataa gcttcggatt 120
cctccatggc tctcccaagt tgtcaagtct tataggctct cggttatatag gttttgcagt 180
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cctctcttat ttgcaaactt aatgttattc ctagctttaa gttgttagtc tcagtgtgtg 300
ccatgtatat ggctgttaaa atgcttgggc ttgtttctgt actacctgct gtttggtgtc 360
tgaatgaagt gttttcctca gtgggtc 387

<210> 13949

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-A12

<400> 13949

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gacgatactg acgagatgcc atgtgtacga caaggagaga tactatgttc cgttcgatga 120
gctcgcgcct caggagtccc aaccaatcaa attccttagg aagttcatgc cagattacgc 180
atgatgccat catcacagct gttgactagt tgagattatt cagtattgtc ggcacagggtg 240
gacagtcaca ttttcagtga ttacgcgatgt cccaaaattt tgactggaat actccatgtt 300
acactattat tcgtgcagt 319

<210> 13950

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-A3

<400> 13950

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gcacacaaac tggaattggc acgtccattg ccatagctgg tgttgctatg tactcttaca 120
ttaaggctaa gattgaagag gagaaaagga aaaagagcgc atgactgctg tgaataatat 180
tatcgagacc ttctcggac acaacatcgt cgacaatcac gacctacttc tatactttgt 240
tttgttttca tcttgagtca gtcggtccat tgtttgttcc cagtctgggtg attaaaagtc 300
tgcaaatctt gtttgtggaa ttggcagcga tacaaatttg gcttctttaa gtaaaccgg 360
ttgccggtac acaacggtat taattcacct gtaactgaat ggaataccgt g 411

<210> 13951

<211> 327

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-006-Q1-E1-A9

<400> 13951

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gcggcgagag gatggctggg atggcgctgc tgcangggcg catggcgctc ctctcaatc 120
 tccgccctag gtgcggcaac ggcaaccacc accaccttct ggggcaaccg gttcgcaacc 180
 tattccgcgc cgcagcctgg ggtaagggtt atgggtcaaga tatgcccaat tgaaatgaga 240
 cttagaagaat gggaccgaaa gaagtgtaaa ccaaacattc ttctgtgct gcacaagatg 300
 catgttagga tcggggacac ggtacag 327

<210> 13952

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-B10

<400> 13952

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 cggcccgcctc aaggacgccg tcaagaacga cctcaagtgc ctctgcgac tctacgccac 180
 gccggagatc ttcaaggcct tcaacatcag cctcgacgag gccctcgcc tctccaagcg 240
 ttgcccgcctc agcgacacca ccgcccctg caagggcctt tcacctacc aatctcctcc 300
 aggttcacca tcaggtggtg gcagtggcag caactccggt catcacactc tgcgggtcgg 360
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<210> 13953

<211> 393

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-006-Q1-E1-B11

<400> 13953

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 attcgtgaca atgtcttcag ctgaagaagc cggggctgct gtcgagcaat tcaacgggta 180
 tacatttcaa ggaagacctc tgagggtgaa ctgcggggcca ccgccaccta gagatggatc 240
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anggaacaag gtatacgtgg ggaaccttgc atggggcggtt gacaactcga ctctggagaa 360
cctattcagt gagcaaggac aggtgctgga tgc 393

<210> 13954

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-B2

<400> 13954

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ggctggcagc agggacgtct tcggcgaggg ccgcatcacc atgcgcaaga ccgccgccag 180
gcccgaagccg gcggcgctccg gcagcccctg gtacgggtgc cgacggcgtc tggtaacctg 240
gcccgcggtc cggctcgccc ccgagctacc tgaccggcga gttccccggc gactacgggt 300
gggacaccgc ggggctgt 318

<210> 13955

<211> 162

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-B4

<400> 13955

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tggcatctct acacagaatg ggacgatttg tatagctatg acgttctatg aaggatccat 120
cgggaacaag atggctcggc ttacaggtgg aaagctccct tt 162

<210> 13956

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-B8

<400> 13956

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cgtagcggca cggcatggcg gccacggcgt actccgtggc gtcctcggc ggcgcacgcc 120
 tgccggtcgc cctcctccct cggggcagca gcgtgtgcca ccaccagctt cgcctcgaag 180
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<210> 13957

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-B9

<400> 13957

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 cgccgcctca tcgccggcga agcgggtgca gctggccgcg cccgagggcc gccgcgccgc 180
 tctgctcggc ctggcggccg tcttcgccgt cacggccacc accgggtcgg ccaaggccac 240
 gatcttcgat gactacctg agaagagcaa ggccaacaag gagctgaacg acaagaagag 300
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<210> 13958

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-C10

<400> 13958

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 cgcataacca tgcgcaagac cgtgggcaag cccaagggtg cggcgtccgg cagccctgg 180
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 accttcgcca agaaccgcga gctggaggtg atccactccc gctgggccaat gctcggcgcg 360
 ctcggtcgcg tcttccccga gctgctctcc cgc 393

<210> 13959
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-C11

<400> 13959

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atcctggaga aggaggccgt gaacgtgtcg ctccagaacc tcaagagcta ccccttcgtc   180
aaggaagggc tggccggcgg gacgtcaag ctggttggcg cccactacga cttcgtcaaa   240
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cagcagttca aggtcaatgt ctatgacaag aagccggagc ttttcgggcc tctcaagtcc   360
ggccaggccc ccaag                                     375
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<210> 13960
 <211> 354
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-C2

<400> 13960

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gttcaccggg ggattcttct tcggcggcag ctccggcgtg ctctgggcct actttctcct   120
ctacgtgctc gacctccctt acttcttcaa gtagaaatca tcacagatgc gtatatatat   180
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tttactcca gcggtgatca gcgccgtgta taaatgtaat tcctctgctt tgcacatgga   300
tggattggga tgtaacctgt tcaacttttt ttaccttaa tggatgcac attc         354
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<210> 13961
 <211> 357
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-C3

<400> 13961

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 cctccggggc tacgccgccc cagggtccgcg gtggcagcgc tgccgtccgt gaggggtgggc 180
 aggaagaggt cgtcgtcgca gggcatccgc tgcgactaca tcggctccgc caccaacctg 240
 atcatggtga cgacgacgac gctgatgctg ttcgcggggc gggtccgggt ggccgcggtcc 300
 gcgaaccgca aggcgacggc ggggctgaag ctggaggcgc gcgactccgg cctgcag 357

<210> 13962

<211> 274

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-C5

<400> 13962

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 tcaactgtcag ctgatctaag catcaacctc cactttggag atgcaactgg gcaagaccac 120
 atctttgccca catctaacc tgtaccgaca aaccagaaga ggagatcaat tatgtcatgt 180
 gtccctcgcaa ggagtgagt cccattccag tgttctcacc aactacgggtg gctacagccc 240
 tcaggattat ccgcaggcag aatgcccgtc ctgcg 274

<210> 13963

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-C6

<400> 13963

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 tcgtcaagaa ctacagctac taattaatcg cccggccatc acccgggata ccgccgcccc 180
 tccgagagat acgtgtgtac tgatcatggt taagcacgta ctccgatcca ttcccatccc 240
 atgaagccat gataatgatg atatgatcca tggaccatgc atgggtgctct ggtcgatgcc 300
 gtacgtgtgt cctgatata atactagttt agtactgatg ctagt 345

<210> 13964

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-C9

<400> 13964

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ccatgggcag aaggcctgct agatgctatc gccagatcaa gaacaagccg taccctaagt 120
ccaggtactg ccgtggtgct cctgacccca agatcaggat ctacgatgtc gggatgaaga 180
ggaaggggtgt tgatgagttc cctactgtg tgcaccttgt ctcttgggag aaggagaatg 240
tctccagtga ggcgctcgag gctgcccgcg ttgcctgcaa caagtaaatg accaagtctg 300
caggaaagga tgccttcac cttaggggtcc ggggttcccc gttccatgtc ctccgtatca 360
acaagatg 368

<210> 13965

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-D12

<400> 13965

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gttcccggag ctgctcgccc gcaacggcgt caagtccggc gaggcgggtgt ggttcaaggc 120
gggctcccag atcttcagcg agggcgggct ggactacctc ggcaaccgga gcctggtcca 180
cgcgcagagc atcctggcca tctgggcgtg ccaggtggtg ctcatgggcg ccgtcgaggg 240
gtaccgcgtc gccggcggcc cgctcggaga ggtggctgac ccgctgtacc ctggcggcag 300
cttcgacccg ctcgggctcg ccgacgaccc ggaggcggtc gccgagctca aggtgaagga 360
gattaagaac gggcgccctg ctatgtttct catgtt 396

<210> 13966

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-D2

<400> 13966

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ccatctgggc gtgccagggtg gtgctcatgg ggcgcgtcga ggggtaccgc atcgccgggtg 120
gcccgcctcg ggaggtggtc gacccgctgt accccggcgg cagcttcgac ccgctcgggc 180
tcgcccacga cccggaggcg ttccgcgagc tcaagggtcaa ggagatcaag aacggccgcc 240
tcgccatgtt ctccatgttc ggcttcttcg tgcaggccat cgtcacccgc aagggtcccg 300
ttgagaacct cgccgaccac ctccgtgacc ctgtcaacaa caacgcctgg gcctacgcta 360
ccaacttcgt ccccgcaaaa tg 382

<210> 13967

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-D6

<400> 13967

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cctctctccg caaggccacc ggcaccgccg ccgtggcaat ggctgccagc gccctgcttg 120
ccggcggtgc catggcccag gaggtgctgc tgggcgcagg cgacggcggg ctctgtcttcg 180
agcccagcca gttcacctgc aaggccggcg acaccatcac attcaagaac aacgccggct 240
tcccgcacaa cgtcgtcttc gacgaagacg acgtgccgag cggcgtcgac gccaccaaga 300
tctcgcagga ggagtacctc aacgcgccag gcgagaccta ctccgtcacc ctcaccgtgc 360
cggaac 367

<210> 13968

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-D7

<400> 13968

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gcccgatcga gagcgagcgc atccgcgcgc cggggagagc tttgctttcg gtggtctgta 120
 acgactcaac gacgacggca ggcggtagat aaaggcgcgc gatgtgcgac gcggcgccga 180
 ggtacagggg cgtgcggaag cggccgtggg gccggttcgc ggcggagatc cgggacccgg 240
 cgaagcgcgc gcgcgtctgg ctccggcacct tcgactcggc cgaggccgcg gcgcgcgcct 300
 acgacgtggc cgcgcggggc ctgcgcggcc cgctcgccag gaccaacttc cccgcgctcg 360
 ccaccacctc ccgcgcggcc gc 382

<210> 13969

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-D8

<400> 13969

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 ggaagacgag aaggccccga ggcgagcggg ggatcaaaga agaagatgaa ggtccgtgcg 120
 gcggtgaagc gcctgtgccg gttctgcaag gtggtgaagc gccggggaat cgtcttcgtc 180
 caatgcacgg ccaatgccaa gcacaagcag cgccagggt tctccaccat cgccgaagca 240
 gccgcggtct cgtgcgttca cctgcctccg ccgcgcggc ctagcgggttc cgctccgcc 300
 gcagcgttcg cagagacttc gaaagtggcg aggcaagaca tgtccatgaa cttcaactgg 360
 cggtcgggtt t 371

<210> 13970

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-E1

<400> 13970

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 ccaaaagcta gataggcaac catgtcggag gagaagcacc accacctatt ccaccaccac 120
 aagaaggacg aggagcagcc caccggccgg cgagtactca gagaccgtgg ccaccgaggg 180
 ggtgaccacc ggcgacgggtg agaacgacta cgaggggtac aagaaggagc acaggcacia 240

ccagcacctc ggcgaggccg gcgctatcgg cgctggcgcc ttccggctgt acgacaagca 300
cgaggggaag aaggaccccg agcacgcgca caggcacaag atcgaggagg agctccccgc 360
cacagcggcc gtgggcgccc gcggg 385

<210> 13971
<211> 371
<212> DNA
<213> Zea mays
<223> Clone ID: LIB36-006-Q1-E1-E11
<400> 13971

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ggaaacaata aacaaccggc gcttttacac ccccgccaag aacaggagca ataacaacaa 120
ggctcctcgc aacaatccat tctcatccat ggcgaaagtc atgaacaagc tggtcgattc 180
gttcgagcac gacgagatac cggacgtcgg ctgcgtgcgc gccgtgctgg ccgagctcgt 240
cctcaccttc ctcttcgtct tcaccggcgt ctccgccgcc atggccgcgc gatccgacgg 300
gaagccccgc gacgctatgc cgatggcgac gctggcgggc gtggcaatcg cgcacgcgct 360
ggccgctggc g 371

<210> 13972
<211> 350
<212> DNA
<213> Zea mays
<223> Clone ID: LIB36-006-Q1-E1-E6
<400> 13972

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tcaaaggaaa aaattctacc tgtggatggc ctgggtcatg aaaaggattc actggacaca 120
ttaaatttac cagagcaaag tacagaccct gtctctgttt ctgcttatgg tgaggggggg 180
tatgtatctg agaaggcttc ccctgagaag caaatccgag ctgcccttct gagaagccgc 240
tttgctgata cgattctgaa ggctcgcgaa aaggctcttg atcagactac caaaaaggat 300
cctgagaagc ttgcacgcga gagggaggaa cttgagaggt taaaaagaca 350

<210> 13973
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-E9

<400> 13973

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gatagcatgg atgctgagac actttgggag cttgacaggt ttgtgtcgaa ctacaagaag 120
aacctgagca agcaaaagag aaaggccgag cgagcgatgc cttgccgaac aagatgcaaa 180
tttgcgtagc cagaacccaa tacaacaacc acaaccaacc ccattcccc aagaaccttt 240
tggtgaaaaa tctccaaaac aagttgtgaa agattcgctg gaaggcgagc aactgccagc 300
atctgcacca gaacaaaatg gtgagaatag acagaatgcg agtagttcaa gcaattcaag 360
cagct 365

<210> 13974
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-F11

<400> 13974

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gcagcggcga tggcggcctc catgatctcc tcgtcagctc tggcagtgga gcgtcagggc 120
ctgccgcctc tcggtcgccg cgctcctcc ttctccgtcg tctgctccaa gaacaacatt 180
acgacggaca acccctacgg gattgtgggt ggctgaccg tccacgtcga cgccaacggg 240
agaacgggca tcggcaacgt cgtgtatcag ttcggcgagc aagtaagcgc gatcgtcgac 300
ggatagacgt caatctacag cgaggatgac tggctctcca cctgcgacgt ctac 354

<210> 13975
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-F12

<400> 13975

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ctctctcgtc tcgtgcggca agcgccacac agacaccga tggcgctcct gctgctgcgc 120
ggctgcgcgc cgccgccagc cgtccacgcg gcccggcg ggccccggct gctccctccg 180
gcgctgccgc ggcgggcgct cgtggccgtc gcctcttcgg cctcctccgc tccgtccggc 240
gaggtggcgt cgtcgtccca ggacggccgc ggctaccgga ccgtggggcg gcccaacggg 300
cacgccatcg ctcccgccac agacaccaag tccaccgcg tcgagaccac cgtccagaag 360
gtgatcttcc agttccgggt cctggcactc ctgcgcg 397

<210> 13976

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-F2

<400> 13976

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tgcccttccg gtctgctgc gtgtggaggc tcgccaccgc gctagcgcct ttgccgcaca 120
acctctcgag gaccacgcg agctcatcct ccgtcatctc ccccgctcct ccgggcagct 180
tcttcccacc tccgccggcc gcgcctcct ggctcccggt gtgcctcttt cgccacgccg 240
ctggggccatc gccggtggcg ggggcctcgg acgagaggca ggagcccatg atggccaatg 300
agaggggacc acacggtggg gcacatggtg gaggtggcgg t 341

<210> 13977

<211> 253

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-F5

<400> 13977

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aaaagctgtg atctgatcga catggccgcc gccaccatgg ctctcacctc ccgcgcgctc 120
gtcggcaagc cggcgaccag caccagggac gtcttcggcg acgggcgcat catgatgcgc 180
aagactgctg gcaagcccaa gccagcggcg tccggcagcc cctgctcccg ggccgagggc 240

gtcccgtacc tgg

253

<210> 13978

<211> 89

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-F7

<400> 13978

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attataattt ttgaagccgt tttagccag 89

<210> 13979

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-F8

<400> 13979

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atggccctct cctccacagc cttcgccggc aaggcagtga acgtgccgtc gtctctcttc 120

ggcgaggccc gcgtgacgat gcgcaagacg gcggcgaagg caaagccggc ggcgagctcc 180

ggcagcccgt ggtacggccc cgaccgcgtg ctctacctgg gcccgctgtc cggcgcgccc 240

cagagctacc tgacggggca gttcccgggc gactacggct gggataccgc ggggctgtcg 300

gcggacccgg agacgttcgc caagaaccgg gagctggagg tcatccactc gcgctggggc 360

atgctggggc cgttgggctg cgtgttcccg gagctggt 398

<210> 13980

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-G12

<400> 13980

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ttcgagtacg cggaccaagt cctggagaag tggtagccca cgatcgagga gggcaacaac 120

aagggcatcg tgggtgctcgt cacaagccag aaggagggcg ccgtcaccgg ggggcccgcc 180
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 ctgcgcaccg acgagaagta caacgaggcg atcttgagca cggcgaagcg gctggcggcg 300
 gcgatcgatg ggctgccgga caccggtggc ccgtcgttca aggagaacaa gcgggagtc 360
 aacttcaaga ccaacgagga gaccgaggag a 391

<210> 13981

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-G3

<400> 13981

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 gctcaatgcg cccaagcatt ggatgctcca caagcttggc ggagcttttg ctcccaagcc 180
 atcttctgga cccacaagt ccacggagtg ccttctctg atcctcatca tcaagaacag 240
 ggtcaacttt gcgctgaagt accgtgaagt cctttctatc ctgatgccac gccatgta 298

<210> 13982

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-G6

<400> 13982

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 gcacaacgtc accggcaagg ggcccttcga caacctgtg cagcacctgt ccgacccatg 120
 gcacaacacc atcatccaga cctgtcggg ttgagtcgac ggtccatcag gtcagtgggt 180
 ccgagctgaa aggccgagac tcgaagacag ttcgtgtgat gcgttcttaa tcgactgagg 240
 gctaaggaat gtgacgtact ggtatatgta cattagttga agcggaggct ataaaggggt 300
 tagagattgt ttcatcagta tatatcatct gtcccgatgg gttttgtttt gtgcttttca 360
 cggttcatca ttgtgggagc acatgtatta ttagtacaag aactgcg 407

<210> 13983

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-G8

<400> 13983

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ccccctccca agtttgccca gtccctaggt ggtgaccatc gtcagcagtt agtccacctc 120
gccgtgacca gaactcccag cacaaggact gaagcttcaa gctgaagtgg tgactgaaga 180
ggaatctact ccagtggctg ctgatcaagt ggaggagcca tctaactggg tagcttgtag 240
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ctagtgcagc tgacaagcag gcccatgcgt aagtgcagg gtggcatggc acttgccgag 360
tgtgtggctg cgcacgtggt cccactgttc gtcgtgcaac gcagtgtgag cgcattg 416

<210> 13984

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-H10

<400> 13984

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ggtgttcgcc tgctccgact cccgcgtgtg cccgtcgggtg aactggggcc tgcagcccg 120
cgaggcattc accgtccgca acatcgctc catgggtccc ccctacgaca agatcaagta 180
cgccggcacc ggggtccgca tcgagtacgc cgtgtgcgag ctcaagggtgc aggtcatcgt 240
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gcccgaacac ttccacttcg tggaggactg ggtcaggatc ggcagccctg ccaagaacaa 360
ggtgaagaaa gagcacgcat cgggtgccgtt cgatga 396

<210> 13985

<211> 290

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-H11

<400> 13985

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ttccaggtac tacttggatg atttgattgc tgggtgtgact tggccttcat ccctgccacc 120
gggatacatg gttgagaggg gtactgcttc cgcaggagag gaccaggagg agtagcgtgg 180
ctaggcttcg ccattgttact caattttctc cgtaggttat ttccgctgca ttaaaaacta 240
tggttactgc ttttgaaact ccgataatgt aatcactttt gataacttctt 290

<210> 13986

<211> 420

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-006-Q1-E1-H12

<400> 13986

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cgaggatgtc ttgcaactgc ggatcaagct gcggtctgagg ctcaagctgc aagtgcggca 120
agaagtaccc tgacctggag gagacgagca cccccgtgca ggccaccgtc gtcctcggcg 180
tggccccgga gaagaaggcc ggcggcgagt tcgtcgaggc cgcggcgagg tccggcgagg 240
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atcgatcgac gaccatggat atgattatta tctatctagc ttgtgggtggt ggttgaacaa 360
taataagcga ggccgagctg gctgccatac atangtattg tgtggtgtgt gtgagagaga 420

<210> 13987

<211> 208

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-H3

<400> 13987

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gcagccgcaa tggcgagcag cactatgggc ctgcctcca cggccttcgc cggcaaggcc 120

gtgaacgtgc cgtcgtcgtc cgccttcggc gaggcgcgcg tgacgatgcg caggacggcg 180
gggaagggcc atcccgcggc ggcgtccg 208

<210> 13988

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-H7

<400> 13988

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gcaatcctag tcgatcttct tcccctcctc aaggaagaaa agaagctgaa ccatggggaa 120
gagaaagtca gctgctaagc cacctcctaa gaagcggatg gacaagcttg aactgtctt 180
ttcctgcca ttctgcaacc acgggagtag tgttgagtgc cgaattgaca tgaagaatcc 240
tgattggcga agcatcctgt agaatctgtc aggaaaactt cagcacaact gttaatgcac 300
tcactgagcc tattgatata tatagtgaat ggattgatga ctgtgagcgt gtcaa 355

<210> 13989

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-A1

<400> 13989

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cgtgtccgtc ctctactctc tagctaaccg cggtcggccc ggggaggtgg cgatgggcag 120
cgaggacatg ctcgtcgaga tccacccccg cgagctccgc tttctcgttg aggtgaagaa 180
gcagagtcca tgttgatatcc atcttgtaa taagtcagat caatatatcg cattcaaggt 240
taaaacaact tctccaaaaa aatattgtgt tcgaccaaata ataggagtta ttcttccatt 300
ggcatcacgt gatttttacag ttactatgca agcgctaaag aatgttccac ctgatttgca 360
aacaaaagac aagtttcttg tgcagaccac agttgttcca ttggtacag ctgacg 416

<210> 13990

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-A10

<400> 13990

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gcggttctcca ccagcttcac gcggggcagc cgggtgtcgg cgaggaaccc cctgatgagc 120
aggaacctgg agaggaatgg caggatcacc tgcattgacgt ttccccggga ctggctgcgg 180
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gccatcaacg gcaacagcct cacggggctc ttcttctoca gcatcggcca agagctggcc 300
cactttccca cgccccgcgc cgtcatctcc cagttctggc tgtggctagt gacgtggcac 360
ctgggcctgt tcatcgtgct cacc 384

<210> 13991

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-A11

<400> 13991

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tgcacccgcc ggtctctccc aagcccagat ggcgcaagct catggacgag atggcggtcg 120
tggccacgga ggagtaccgc tccgtcgtcg tcaaggagcc gcgcttcgtc gactacttca 180
gatcggctac accggagacc gactacggga ggatgaacat cggcagccgg ccagccaaga 240
ggaggccccg cggcggcatc acgacctgc gcgccatccc ctggatcttc tcgtggactc 300
agaccagggt ccaccttccc gtgtggctgg gagt 334

<210> 13992

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-A12

<400> 13992

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tttatccttg gacagcaagt tcccttctct ctgtggcttt ctcttgcccc tgtggtcatt 120
 ggtgtttcaa tggcatccct tactgagctt tcattcaact ggactggctt catcaatgcc 180
 atgatatcaa acatctcatt cacttacagg agcatttatt ccaagaaagc tatgactgac 240
 atggatagca ccaacgtgta tgcttacatc tcaataatcg ctctaattgt ttgcattcca 300
 cctgcattga tctttgaagg gcccaagcta atgcagcatg gatttagtga tgccattgca 360
 aaagtaggtt tgacaaagtt tgtcagtgcac ctattcttgg ttggactgtt cttacatc 418

<210> 13993

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-A2

<400> 13993

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 gtttccaagg gctgtttgat ggacgaggc ccatgtacac gacgaatcag gctcggatgc 120
 acgctccacc tcctccacac ttccacggag ccttccctag gaacgcacct cctcctgagt 180
 tcccagcggg gttccgggga gcctggcgt cgtgcaggc acctccgatg ccggcaccgt 240
 cacatccatc gtctttcccg ccgtttcagt tgaggccacc gccaccatcg cagcatgata 300
 tgtctggcgc atgcggcacc aggtggcccgt gtggcaatca aatctacaac ccttttgcac 360
 caacggctgc gg 372

<210> 13994

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-A3

<400> 13994

cggacgcgta ggcggacgcg tgggcggacg cgtgggcgga cgcgtgggtg atgtgtgcga 60
 tatggagtaa aatccttgga gaattagggtg gagaagaagg ttaagttcaa cactccttag 120
 gtgttcgatg atatgctcga actggtggcc gtctaagtgc ttgctgaaat cgagtcggag 180
 catgatgtgg ttcggttacac gtgatgcgaa ggacaagagc cgagttgatc ccaaaatgat 240

gctagtgaac gaacctaagg atggatgac tgatagagtg ccagaatggg agatgctcac 300
 caagtggctg tcaattaaca gactaactt agtgttatcc caagttaaaa ttttgttctg 360
 ttatggatgc tgctaagtgc ccgtgggctc aatcttctta tataagtata tcccatc 417

<210> 13995

<211> 450

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-007-Q1-E1-A4

<400> 13995

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 cggcggcggc ggcgaagatg atcataccgg tgcgtgctt cactgcggc aaggtgattg 120
 ggaacaagtg ggacctctac ctgcacctc tccaggccga ctactcgga ggggatgctc 180
 tggatgcttt ggaattgttc cgctactgct gcaggcgaat gctcatgacc catgttgacc 240
 tcattgagaa gttgctcaac tacaacacac tggagaagac tgagacaagt taagtgagca 300
 agcatatcat gctctgaaag cattactgtt tcgcagtatc atatatttg taggcggtat 360
 gttgtttctt ctctatcang agaggattgt tgtgagtgtg aacttgcttt tgctctcgag 420
 cattcaaaga ctgacaaggg catgttgcat 450

<210> 13996

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-A5

<400> 13996

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 ataggctacc gccaggtgcc gactgccgag gccgcaccc gggcgaaga gcgcccacca 120
 gtcccagcaa tggcagcaag gtgtagcctt tctcgtcat cctgtcggg ccatggacct 180
 ctccgccaca ataaaccag caagagactc gctccatgcc tgccatcggc gccaaagacca 240
 cgagccgctg ctctgagagc gcgtgctgcg aaacttcctc caggggttga agcgcgcaaa 300
 gtgcacccga agctgagcga gcccttcgtg ggggtcaccc agaccgcgg agattctgaa 360

ctccagggcc tgcaggatcg gcctcatccg caccttcact gtggagcggg tgctgaacaa 420
 cgggattcgt ca 432

<210> 13997

<211> 403

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-007-Q1-E1-A7

<400> 13997

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 gctcaagggtg aaggagatca agaacggccg cctcgccatg ttctccatgt tcggcttctt 120
 cgtgcaggct atcgtcaccg gcaagggccc cctcgagaac ctcgccgacc acatcgccga 180
 ccccgctcaac aacaacgcct gggcttacgc caccaacttc gtccccggca agtgagcgag 240
 ggcatgatgc ttgcatgcgt gtaccgtaga cgtaccgtat tcctacgtac tgcaggttgc 300
 accagtattt gtgaaggagg ctgtgcgtgg gagccagaga ttgtaccgct agtgtatttt 360
 tgtatgcacg ctgtggagct gatcaatgaa atatgctgta nat 403

<210> 13998

<211> 380

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-007-Q1-E1-A9

<400> 13998

cccaagcgtc cggccatggc ctccctcgcg acaccggctc ctcttcctcg cggtgccgcy 60
 ccgtcgccgc cgaggtcgag ggcctcaaca tcgccaacca cgtcagccag ctcatcgga 120
 agacaccaat ggtatatctc aacaatgtcg tcaagggtc tgtcgccaat gttgctgcta 180
 agcttgagat tatggagccc tgttgtaacg tcaaggacag gatanggtac agtatgataa 240
 atgatgctga acagaagggc ttgattactc ctggaaagag tgtttttagtg gaagctacaa 300
 gtggaaatac acgcattggc cctgccttta atgctgcctt ccaaggatat aagttgatat 360
 taacaatgcc ttcataatg 380

<210> 13999
 <211> 270
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-007-Q1-E1-B1
 <400> 13999

cggacgcgtg ggcggacgcg tgggcggacg cgtggggaag gcagcaaaga tgtgtgaagc 60
 ggcaatggga tgcttgctgt aaggtaatat gtttggttg ctaggcacgc tacacgctat 120
 ttggatgtag caacgttatc accagctgta tacgcttttt aatcgacaac atttgaataa 180
 tatgtacata acattatggt gtgctcttca gaaaaaaaag tgtatccccg gcaagtgcgc 240
 gatgggagga ttctgtgcgtg catgtacggt 270

<210> 14000
 <211> 401
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB36-007-Q1-E1-B12
 <400> 14000

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 ggtgatgtat ccaagggacc aaatgatgtg ccgatgctg aacttctggt agctaagaag 120
 gatcctgact ctgcaataac tgctgtttct gattctgggt gacaacacaa tcttcaacct 180
 gaggctgacc aaaaggaaat tggacgcttg actgctgaaa actttgaagc gaagaatcat 240
 actaaaagtt caaaaagttt ggaagctcct caaggagcac aacttgtgac ttctatgctg 300
 tcaaagaata gcgtggtctt ttgtaaaaac tatctatcca gaatcagtgt ttcacatgat 360
 cntgttgagc ctgagttgta canaagggtg atatccttgc t 401

<210> 14001
 <211> 355
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-007-Q1-E1-B3

<400> 14001

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gagaagctct gtcaagttat ccatgatacc ccgctgagct gcttggttat aggaagcagg 120
ggccttggca agctcaagag ggtgcttttg ggaagtgtca gcgactatgt tgtgaacaat 180
gcaacctgcc ctgtcacctg cgtcaagtca acaagcacgc aagggtgata ttatcgccga 240
gatgcctgga tgtgatgttg taataaagat ggttggcctg aataagaaca tgcactagtt 300
tctagctaat tgaacatgt tgaaccaggc aattccaatg taatactaat agacc 355

<210> 14002

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-B4

<400> 14002

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ctcgcatggg attgtttcct tttctttgga gttgcagttc ttacagtttc tcaagcatca 120
cagatagcaa ggaacattac aacaaatgag atggcaaatt ccatgagata tgcataatctc 180
agaggcccag gtggcagatt caggaacccg tatgatcatg ggagtcgcaa gaagtgtctt 240
gacttcttgt taaatggata caatgaggac actgaacggc tagaccagac attgcacact 300
gatgaggaga tgggaatgat acagatgaca agagcggttt cgagaatgg tgacaatcac 360
ttagatcatg gtaatggcac ggagaataat tgcgctgatt cacatgcaag cccaaaatct 420
catatccaag tgggttcgcc tcagtgttgt gatcaca 457

<210> 14003

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-B6

<400> 14003

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cgcgagacgc gtggacgact tcctgcgccca tcagctggtc ccggaggacg acgccctcgc 120

ggccacgcgcg tcgtcgccctt ccagcgaaga cgccaacacc tctgatggcg gggagtcac 180
ctctgattcc tctccgccca ccggggcctc gccgttcgaa tttgatgtgt tcaacgacat 240
gagctgggac ctgcactacg cgagcttggc gcagggattg cttgtggagc caccgtccgc 300
ggtcacggcg ttcattggacg aaggcttcgc cgatgtgccg ctctggagct actagagact 360
gaaaatttcc gtttctttcc ttggcctctg gcgcctaatt ttggcagtgt aaaacggtta 420
cttatttttg taatgagatc ga 442

<210> 14004

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-B7

<400> 14004

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ccgataccta attccttctt ggattctctt ctactctaga gctctgctag accgatctcc 120
agttaagttt cagacacatg gagagcaacg cctcgtccaa ctgcgccacc gtgccgcagc 180
cgccgccgtc gacagggaag ctgatcacga ttctgagcat cgatggtggc ggcatccgcg 240
gcctcatccc agccaccatc atcgcgcacc tcgaggccaa gctgcaggag ctggacggcc 300
cagatgctcg gattgccgac tacttcgacg tgatcgccgg gacgagcacc ggccgcttc 360
tcacgtcgat gctggcggcc ccggaccaga acaacggccg ctgttcttcg caaagga 417

<210> 14005

<211> 451

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-007-Q1-E1-B8

<400> 14005

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gattgtagca aggtaccatg gccaagetct tcgatcagga aagcttacia tgtaaattgt 120
tgtgggtggc cacagcaaga agctgcttac gaatgtaaaa tcaatctctt gacagggaaa 180
actcaccaga taagggcaca gcttgctgct ataggcgctc ctattatagg ggattctgca 240

tacatgactg cagcaatggc agcgatggcc aacccaagca taaaccatt cggtagagag 300
 aggctgagtt acaacagtga agaggagaaa gaagccgccg tcgaagcatg gattgcctcn 360
 cacgggaagg aacaaaaatc cgtaattggg ctgcaagcgt cagagatctc ttgggatcac 420
 ganggcaagc accattctta caaggctgga g 451

<210> 14006

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-B9

<400> 14006

accacaacc aggaacagag cgaggcgacg ccgcggcacc tcttctccgg tgaaggga 60
 tggcaaccgt tccaggggat ctgatctggc aggttgtgag gaagaacaac tccttccttg 120
 tgaagcagtt cggcaacggc aatgccaagg tgcagttcac caaggagccg aacaacctct 180
 acaacatcca ctcttcaaa cactcgggtt tggcgaacaa gaagactgtg acgatccagc 240
 cagctgcaaa ggactcggct gtggtcctct ctactacaa gaccaagaag cagaacgcac 300
 ctgcgaagct cagccacaag tctgtgatgc gcaaggagtt ccgcaagatg gccagggtg 360
 tgaaaaacca ggtagtgac aactactaca agcctgatct gaccaagcca gctcttg 417

<210> 14007

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-C10

<400> 14007

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 tgttgacat ttgaaaagaa ttgtgaaatc aaaatatcca tatgttgaga gcaatcttga 120
 gctaattgct tacactgtct ggaatgcact tgagtattct tatgccttcg aaggaatagc 180
 tgagcaacta aagaaggaac ggatggaaca ggtggcactg aaaagtggtc agaccagtga 240
 tgaagtgact cctttggatg ctgacattga tacgagtaat tttgattcat ctgattagtc 300
 tgcacatgct aatgttgc 318

<210> 14008
 <211> 374
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-007-Q1-E1-C11

 <400> 14008

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 cgccatgaac ggccggcgca accttgtcac agtgccgcta actaagtact ccacattccc 120
 gcacagagct gatgcggact atggagcagc caaggatgatg ctgaggcctg cttgccctgg 180
 atctgggtgtc attgctgggtg gagccgtgag ggttgtgctg gagatggctg gtgttgaaaa 240
 tgctctgggc aagcagctgc gcagcaagaa cccctgaac aacgctcgag ccactatcaa 300
 cgcgacgcag atgatgaagc agttcaagga tgtcgtgag gagcgttgta ttccaatgga 360
 ggagctgtgg aaat 374

<210> 14009
 <211> 448
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-007-Q1-E1-C3

 <400> 14009

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 cgccgccgtc tccgtgaagc cgtggccat caagggtctc gccggcagct ccattctcgg 120
 aaggaagctc gccgtcgcca ggccgtcggc ccgtccatc cgcaggcccc ggcagccgc 180
 cgtggtggcc aagtacggcg acaagagcgt ctactttgac ctgcagaca tcggcaacac 240
 caccggacag tgggacctct acggctctga cgcgccctcg tcctacaacc cgctacagag 300
 caagttcttc gagacgtgcg cggctccgtt caccaagaga ggtctgctgc tcaagttcct 360
 gctgctgggc ggcggctcac ttctggccta cgtcagcgcg tcggcggtca cggacctcct 420
 gccgatcaag aaaggacctc aggagccg 448

<210> 14010
 <211> 454

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB36-007-Q1-E1-C4

<400> 14010

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 tcttctagct cgttttatta tccatggcgg aggagaagca ccaccaccac cacctgttcc 120
 accataagaa ggacgaggag caggaggagc agctcgccgg cggcgggtac ggcgagtccg 180
 ccgagtacac ggatgccacg gtgacggagg tgggtgtccac gggcgagAAC gAgtagacg 240
 agtacaagga ggagaagcag cataagcaca agcagcacct cggcgaggcc ggcgccatcg 300
 ccgccggcgc cttcgcactc tacgagaagc acgaggcata gaaggaccgc gagcacgcgc 360
 accgccacaa gatcgangag gaggtcgagg cggcagcggc cgtcggctcc ggcggttcg 420
 ctttccacga gcaccacgag aagaagaatg acca 454

<210> 14011
 <211> 118
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-C5

<400> 14011

aacccaatcg tcagctgagt agcatggact tgcgcgactg ctcatcacgt catcctcatc 60
 ctctcttctc gcgtcggacg cgtcggtagc aacggtcgct agacgcagat gaatcgca 118

<210> 14012
 <211> 365
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-C6

<400> 14012

acggcgtctg cgtggacgcc acggaggacg agctcttccg cctcaacacc aaggagggga 60
 agcacaccgt gaagcgctag agcgtaaga ttcacacaca gcgcttatcc ctctgtggggc 120
 cgttcgtgcc ggacaccgtg ccgatgttgg acatgctgcg tgcgctctag tccaacaggg 180

agatgatccg tgctctgcag gagtctctcg cgagcgagct cgcagcccg atgagcgcca 240
 tgatcagctc caccgagctc agccatcgag cacctgcaag aaccccgaga acgcctacgt 300
 gctgaaggac caggccaaga tgatcggcga cacgctcgag attctcgacg gtgtcaacac 360
 catca 365

<210> 14013

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-007-Q1-E1-C7

<400> 14013

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 gtgatcatat catttgcatt ctgatcttc aagcagagaa agcttgtgaa gaggcacgca 120
 acagagattt tcacatcaat tgccatcgcg tcgacattct ctctgtactc aactgctatc 180
 atanggcgcc tgattgggct agagccatcg ttaaccatat caatactgcc aagggtgtatt 240
 actctggcgc tggttttgag catagtgtct ttctttgaag gtgtaaactc ttcggtaact 300
 gctgtcgtgg ttgtccttac cgggctcatc ggtgcgaact ttgtgctagc agccatggag 360
 aaacttggtc tgaacgaacc catctccaga ngagtaggga cagcttccag cgctcaaaga 420
 ctgggaacag cagcact 437

<210> 14014

<211> 265

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-C8

<400> 14014

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 atgccgcaaa gatcaagagc accccggagg ccgagaaata cttcgcagca accaaagatg 120
 cgctcggcga cgtcctcgcc aagctagcct agatggaagc taatagatgg gttaacgatg 180
 gccacgtaat ttcggacttg tgtttgttca tatggagccg gcaaagtac cgtttctgt 240
 tcatattata tcacgagttc ttgac 265

<210> 14015

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-D1

<400> 14015

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ttggatcatt tgtacatgca acatgtactt tttctaaagg gtttgacata gagaacatct 120
tgtttgactg cgagaattag tggctgcggc tgatgccaca acttattatg ttgtagtaag 180
tactataaat ggacaacgat aagggtatta ggtgaagaat aaatggttgt aggttgctgc 240
gatctactct cataagttac tatagcatta ctgtacaatt gtacatacaa caagagcagc 300
tgaaagtagc tacaatgaat gcagacagta tctagaaaat ttaaaactat tttgatagcc 360
ccttttttgc acaactagca gatcatattc cattcttgac tagcagcaca actagc 416

<210> 14016

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-D11

<400> 14016

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acgatgaaca aattaaaca aacccttatt tgtgttgag agaaaaacta tatgtacaag 120
gtatgtacgg gcactaaaaa ccaatgtcag attgcctatg taagcttcgg ttgggtgatc 180
ctctgtggca tggagcacat gcaaccacac cagaagcagt aagtcaccac attatttacc 240
ttgcagttcc atccaccagc aatggccaac cgcagtttat tgcattttca tcaacgaatt 300
tgactgggta aggaatgggg agaaagggga aggggtccat tactagaatt taaacttcat 360
cgtttcaact atgaatgcct ttacat 386

<210> 14017

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-D12

<400> 14017

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cccgaggcaa agctgcgact ccgcaaccgc cgccatggcg ttcgagaaga tcaaggcttc 120
caacccaatc gtcgagatgg acgggtgatga gatgaccagg gtattctggc agtctatcaa 180
ggacaagctt atcctcccat ttctggacct ggacatcaag tactatgatt tggggatact 240
gcaccgtgaa gcaactgaag acaaggtcac agtggacgct gcagagggca ctctcaagta 300
caacgtggcc attaagtgtg cgaccattaa cccagatgaa a 341

<210> 14018

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-D5

<400> 14018

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aggtgcagag cgcgtagcag ggaggaggac ggggcagcct cgctgggttg gaggcattgg 120
aggaggcgct gcctattcgg cgcagcatat ccaaattcta caatggtaaa tccaaatcat 180
ttgtgtgcct gaaagaagct ataacatttt caggctctgc aagagacatt actaagtcag 240
agaatgcata ctccatagaa cggaagaatc tctttgccta catcatcatg tatggaaatt 300
cacatgaacc acgggcagct caagtttatg aaactgtctc ccctaagagg catgctagtt 360
tgagtagaaa ctctttgatg acttttgg 387

<210> 14019

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-D6

<400> 14019

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gcgtcggcac caatggctta ctaccaggag gtggactact gctcggagga ggtgaggtcg 120

gtggccccgg ccgggttcgg ccgccacggc ggcggtcgcc agcagcacgt cgtcaaggag 180
aagttcgagg aggtcgacac ggtcgcacgc gccggcgcca accaccacca ccaccatggt 240
caccacggcg gccacggctt cgtggtgcmc gagaccaggg tcgaggagga catcaacacc 300
tgcaccggcg aggtccacga gcgcaggag agcttcctcg ccagggctaa ctgagcagcc 360
cggggggcgg gcatccacgc ccgttcgtgc ctgcctgcgt gccttaggta tgtctgtgat 420
tgtgc 425

<210> 14020

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-D7

<400> 14020

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gaagctttgc gacgctggaa tggaccgttc ctggagacgc cccgtcgggc gtttataggt 120
tgaggcattt tgggtgcctcc aaaccactga ttgggtccat caaacatttt acagggaacct 180
ctcgggcggt cgcagtgcgt taggttgac accgttgcgt tgcgttcgac ggcacacctg 240
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gttttcccta tagtttttac atgctcctga tattaataac gctgtccatc gcccgttctg 360
tttggtcatg acaaataccc aaatcgccat atagctacag actcgatgtg tgtgaaattt 420
ctatatatta aagcaggaaa gaaatc 446

<210> 14021

<211> 108

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-D8

<400> 14021

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gggaggaaga aacagcgatc gacggcgctc aactatctgg acactacg 108

<210> 14022
 <211> 473
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-007-Q1-E1-E1

 <400> 14022

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 gacgagaaga actgggacgg gttggtgatg gcgtgcgaga cgccggtgct ggtggagttc 120
 tgggcgccgt ggtgcgggcc gtgccgatg atcgcgccgg tgatcgacga gctggccaag 180
 gactacgccg gcaagatcac gtgctgcaag gtgaacacgg acgacagccc caacgtggcg 240
 tccacctacg gcatccgcag catcgccacc gtgctcatct tcaaggcgcg cgagaagaag 300
 gagagcgtca tcggcgccgt cccaaagtcc acgctcacca ccctcatcga caagtacatc 360
 ggtagctcat gagcatgcca tgcattgatg catcgacgac tagacacata tgtgtatctc 420
 tagtagcctt tgcataccgg atatgatcaa ttcaagcagc cagccgtctg cta 473

<210> 14023
 <211> 208
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-007-Q1-E1-E10

 <400> 14023

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 gatgagtcga tgtttcgtag acattttgaa gcttttgggg aaattcttga tctttacatg 120
 ggaaaggaac atgggtcaaa agggcatcgt ggaattgggt ttatcacgtt gcagagtgca 180
 gagtctgtgg acgacgtcag gcaagagt 208

<210> 14024
 <211> 378
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-007-Q1-E1-E11

 <400> 14024

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taagctcgac gacaagccgg ccgggcagta cgtcgagaag gccgaggggt acttgaagga 120
gttcagcgcg ggcgcgggac acgccaccga gcaggagcag cctgcggcgg cagcaggcga 180
cgacgcggcg cccaagccac cggcgccgga ggcgccaag gagccggcgg cgggtgcctgc 240
gccggccgcg gaggaaggca gcaagtcgtc ggagggcttc ggcttcggcg acgtcatgaa 300
gggcgcggag cagctggtgg gagggaagca gcaggcggc ggggaggaga gcgcccgcgg 360
ccgtgggttg tttaagat 378

<210> 14025

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-E12

<400> 14025

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ttcccgagcg agttcttggg tgacctcttc ctcttcggac cacctccaag gcttttggtg 120
tagcttgcca ctctcaccaa tcaagttttc atgtctgac tcgacattca gatcccaact 180
gccttcgatt ccttcgctga ggccaatgct ggggactctg gtgcggcagc aggggtcaaag 240
gactacgtac acgtgcgcat ccagcagcgt aatggctgca agagcctgac taccgttcca 300
gggattgaag aagga 315

<210> 14026

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-E3

<400> 14026

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tcttgagtat tttgtctgag cgattcactg gtccacaatt tttttccggc gttcacagtt 120
ttgccccac tctgccgcgg tgccgcctaa gcttgtccag tacttgatca atttggttga 180
gaatcagcgt agaaggtgcg attagagggc aatatattat tactactaaa ttcagcaaga 240
gagcaatgga gttttgcgga gtaaaatctt atttgtatta attgggtgaa ctgtgcattt 300

gtatatgact acatgtcatc tagataaata gctaggttat ttaggattgt gctagtgtga 360
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<210> 14027

<211> 187

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-E4

<400> 14027

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 acctggatga ttcatcgaag gtggctacta ttctgaccgc agtggcagat gccacatgtc 120
 ctgaactgga gactgattcg gcggatgaat ctgtcgcata tatctcatca cttggtattg 180
 gtcacga 187

<210> 14028

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-E8

<400> 14028

agctatggtc gtagttatga ctcttcctgg gctaatactg gtgatgggtt tggcaccggt 60
 ggactctatg gtgctaggac aggctatggg ggcagtggcg gcagtgggtc tgctggctcg 120
 taccatccat atggaagata gaaaatctcc agtgctgctg tttgctagag aagcttgcag 180
 aagatgaatt ctagatgtgt gctcaagaga tcatctgcat ctaaaagatg cactgaagtt 240
 caatatgctc agttttctgt attaggaagt actgtagat caactttagt aaatttaaac 300
 ctttgttttg gtatttggaa ttggaattta agcatatttg ataagcgtat gcacttttat 360
 agatagaaaa tctagtgacc cgtcaaaact agctgccagt acaagcatga gtgaatcttt 420
 gttagt 426

<210> 14029

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-F1

<400> 14029

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ctccgtggcg tacggcgcgga cgtggcagtt cgacacggag gcgctgccca acgacctcgt 120
caagcgcggg ctggccgtgc gcggggagga cggggagctg gagctcacca tcaaggacta 180
cccctacgcc cagcaggggc tcctggtctg ggactccatc aagcagtggg cgtccgagta 240
cgtcaacgtc tactacaagt cgcacgaggg cgtggccgcc gaccccgagc tgagggcggt 300
ctgggacgaa gtgcgcaacg tggggcacgg cgacaagaag gacgagccgt ggtggcccgt 360
gctggacacc cgcgacagcc tgggtggagac gctgaccacc atcatgtggg tccaccccg 420
ccaccactcg gccgtcaact ttcggca 447

<210> 14030

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-F10

<400> 14030

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cccatggctt cggcggcggc gagatccggt ctccggtcgc tggcgggtgcg cgccgccccg 120
gtgaggcgcc gcatgtcctc ctccgtccac gacgagcct atgagacggc caagtgggag 180
aagatcacct acgccgggat cgtgacctgc accctcctgg cggcgtacaa cctgtccaag 240
ggcgaccccc acttcgatga gccgcgggca taccctatc tgccccctcg ccacaaggag 300
tgcccagggg ggcc 314

<210> 14031

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-F4

<400> 14031

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gaaaagatgc acatattgcc atgggactgg gtacttgcca tgtgctcgct gttctgctag 120
 tgggatgtta ttgaacacaa agcagttttc attattgggg cataatatgt ggtcaatgaa 180
 aggaaggtgt cagaattgtt ctggagctgg aaaggtgatg tgtccgacgt gcttgtgcac 240
 aggaatggcg atggcaagtg agcatgatcc acggattgac ccttttgatt agtttgatat 300
 gacaatacgc tttttgtctg tttcgtggaa aatatgttgc cgataacagc aataaactca 360
 tgtttgtatg tacgttatgt ttgttactac gtgatcactt gagaggagtt gagtgcaacc 420
 cttgtccaaa agaggacact acaaatg 447

<210> 14032

<211> 207

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-F9

<400> 14032

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 ctccacctac atgttccggg tggccaacaa ggacatgacc tacgcgcacc agctcagggg 120
 ctacgagaag cacgtcatgg agaaacggct ggagagcttg tcggatgctg agctgcaagc 180
 tctgctcgag caagttgagg acgagaa 207

<210> 14033

<211> 157

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-G10

<400> 14033

ggtcgaccac gcgtccgaac aacatttctg tgctgttggt ttagcactt agcagtgtac 60
 catgacttga atagttcata tgactgcctt tagatattga ctgcaagctg ctgctgaagc 120
 gttgtccctt ctgcggggcc gttccaaatt ttagttt 157

<210> 14034

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-G3

<400> 14034

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cgctgcgaca acaacgggca gtcgtgcctg ccgggcacca tcaccgtcac ggccaccaac 120
ttctgcccgc ccaactacgg cctccccagc gacgacggcg gctggtgcaa cccgccgcgc 180
ccgcacttcg acatggccca gccggccttc ctccagatcg cgcagtaccg cgcgggcac 240
gtgcccgtcg cctacaggag ggtgccgtgc gtgaagaagg gcgggatcag gttcaccatc 300
aacggccact cctacttcaa cctggtgctg gtgaccaacg tggccggcg cggggacgtg 360
cagtcctgtg ccatcaaggg ctccagcacc ggggtggcagc ccatgtcccg caactggggc 420
cagaactggc agagcaactc gtcct 446

<210> 14035

<211> 174

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-G4

<400> 14035

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agatcagtgg ccttcattgc actttggagg gtgcgctggg ttaccatctc ccacggggag 120
agtggacgtc ataatttgtg gtagaggggg tacgcgttcg cgcggcccct gttg 174

<210> 14036

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-H1

<400> 14036

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tatatcttcc tgggtgacata aactaccag gaggaccct ttttgatccc ttgggcctgt 120
ccaaggatcc cgtggcattt gaagatctca aggtgaaaga aatcaagaac ggtcgccttg 180
cgatggtagc atggtttggg ttttacatcc aggcggctgt cacaggcaag ggccctgtac 240

agaacctggt tgaacacttg tccgacccac taaataacaa tatattgtcc tccttccact 300
aatgaaaat atgcaagagt ggcacgaacc atagcaacgg gtgtatattg tattagcggt 360
tacagtttta cactaatggg ttctgaaaat tggctattat atttatttag atagacattt 420
aacggtgatt agtgatct 438

<210> 14037
<211> 60
<212> DNA
<213> Zea mays
<223> Clone ID: LIB36-007-Q1-E1-H10
<400> 14037

cttaagatac gctcactcga tcttagcttc gcttccatga agcgcaacgc ccatgggtat 60

<210> 14038
<211> 295
<212> DNA
<213> Zea mays
<223> Clone ID: LIB36-007-Q1-E1-H8
<400> 14038

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aaccttatcc cagattcctc cctcggcattg gaatgcatgt agtaccgagt aggcattccc 120
ccccgttggt agccaaaagg gagcttagat gcttaggttc gaaggagcga ggaactgttt 180
tttaggcacc gcaggtttta atagaatttc tgacgcattc gacgaagtgt ttggttgtag 240
cgtggtagtt gtgttactgg ggaattcccc gagttattat acaatgtgtt aagac 295

<210> 14039
<211> 382
<212> DNA
<213> Zea mays
<223> Clone ID: LIB36-007-Q1-E1-H9
<400> 14039

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ggcggcgagg ccagccgcgg tgacgacgga gaggtcgctg cctgcgccgc cggcgccggc 120

gccaatgccc gcgtacgagc aggagttccg ccacccatac tacgccccgc agccggtggt 180
gagctaccac gcgtcgcagc cgagctcgag cgtgtcgtac acgtacttcg cgccgcagac 240
gcagccggcg tactccatgc aacaggcaca gccgcaccca caggccgcgg gctcctactc 300
cgtgcagccg acaccgcggg tgtactactc cgcgcaggag ctgcagccgc agcagccggc 360
gaagcagtgg tcgccgtcgt ac 382

<210> 14040

<211> 254

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-A10

<400> 14040

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tcctctacga cccacacgac ccagcatggc gatgttctcg agaagctcac cgggtgctcct 120
cgctcttcac atcaccaggt cgctcatctc cagcgcgctg ccccggcacc cggtaattgc 180
ggagatgcac agtctctgta tcgatgcaca ccgaatgcat cgagccgtgc actctctgcy 240
agcgcaacca caac 254

<210> 14041

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-A11

<400> 14041

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cggcttcgtc gccgtgccg ggttcatctc aaacgacgcg ctgctggagc gcgggcacga 120
caccaccggc cggagcctgc tgcaggccac gaaagattgc ccggtgagct tcgagggcgc 180
caactacacg gtgatcacga gccggtgtaa gggcccgcgtg taccagccga ctctgtgctg 240
cggcgcgctc aaggacttcg cgtggcctta ctccagctac atcaacgacg ttagcaccaa 300
ctgcgcgcgt accatgttca gcggtacaaa tgggttgcaa gc 342

<210> 14042
 <211> 218
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-008-Q1-E1-A12

 <400> 14042

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 tcggctaacg gacggaggaa ccgcaggcct gtaggcactg acgccgcaga gacgccctcg 120
 accccgtcct gccggatgac gccttgctgc accaacacgt ccacctgagg ccccatgacc 180
 atctgtgcga agtggacggc ctggaacgca cgcctcgc 218

<210> 14043
 <211> 376
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-008-Q1-E1-A2

 <400> 14043

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 ggacaccatc gacaatgtga aggccaagat ccaggacaag gagggcatcc ccccgacca 120
 gcagcggctc atcttcgccg gcaagcagct cgaggacggg cgcacccttg ccgactacaa 180
 catccagaag gagtccacc tccacctggg gctccgcctc cgcggcggcg ccaagaagcg 240
 taagaagaag acgtacacca agcccaagaa gatcaagcac aagcacaaga aggtgaagct 300
 ctccgtgctg cagttctata acgtggacga caccactagc aaggtgacct gcctccgcaa 360
 atgagtcccc caaact 376

<210> 14044
 <211> 324
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-008-Q1-E1-A4

 <400> 14044

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gtatgtaccc tgacgtggag accgccgcca ccagcagcgt caagaccacg gtcctcgccg 180
cgccgaccac caaggccagc gccggcggct tcgaggcggg caccgagggc ggcggctgcg 240
actgcaacac ctgcaagtgc ggcaccagct gccgctgctc ctgctgcagc tgcaactgag 300
ctggggccggg ccggcgatgg cgca 324

<210> 14045

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-A5

<400> 14045

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ccacggcgat gctctcggcg ctcatgagca agcgcgcca gctccaggag gagctccgct 180
ccatcgagcg ccaggtttat gatatggaga ccacctacct acaggagact aatcaatttg 240
gaagtgtgct gaagggtttc gaatcttttt tgtcatcctc aaaaaacacc tctaacctta 300
agcgtctcgc gaaatttcag gctgacgaga gggtattctc tctgtcatct gttacttctc 360
cagcggttga tgaacatttg gctggacgag atgatggaag ag 402

<210> 14046

<211> 111

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-A9

<400> 14046

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tcgcgactgc tacctatcct tcctgctgag cctatatatg tttctattgc t 111

<210> 14047

<211> 173

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-B3

<400> 14047

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tagcagcact gcagcagtac accagtaccg cagcggcgca gcgcaggtcc gcagccggag 120
atccccggcc cgcgggcagg ggcggttaga tcgccgcgcg catagctgcc agg 173

<210> 14048

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-B6

<400> 14048

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ttccccgtgc tcgccctaga tgagggttct gtaatttctg gtatccaaag agatgatatg 120
gaatccattg aaaaacttgt cccagattta gcatctctac ggggtaggct ctgtccttct 180
tacatggatg aagacatatt ctggaagatt tacttttaggt tgcttgagtc aaacataagt 240
gagcatagtt ctgaggaaga tgtcctgagc gtgccagatt ctggtcatca caccaatgag 300
agagagt 307

<210> 14049

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-C10

<400> 14049

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ccgagcctca tccacgcgca gagcatctc gccatctggg cctgccaggt cgtgctcatg 120
ggcgccgtcg agggctaccg catcgccggc gggccgctcg gcgaggtcgt cgacccgctc 180
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gtccaggcca tcctcaccgg gaagggcccg ctcgagaagc tcgctgacca catttgcgac 360
cccgtaac 369

<210> 14050
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-C11

<400> 14050

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accttgggga gctcggcgcc aacgtggacg cgctgcagaa gctgctcggg cggaaagccg 240
tcttcgtaga cgatgacatc ttccccaagg cctccctcgc tgccgaccag gcccgcacca 300
ttaaggttct tgaccagagg gtgcagtctc tggaacgtga actcgatgcc gccatttca 359

<210> 14051
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-C6

<400> 14051

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agaggccgcg gcgatgtctg ggcgcggcaa gggcggcaag ggtctgggaa agggcggcgc 120
gaagcgccac cggaaggctc tccgcgacaa catccagggc atcagcaagc cggcgatccg 180
gaggctggct aggaggggtg gcgtgaagcg catctcgggg ctcatctacg aggagaccgc 240
cggcgtgctc aagatcgttc ccgacaacgt cctccgcgag cccgtcacct agagcgagca 300
cgcgcgcccc 310

<210> 14052
<211> 208
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-C8

<400> 14052

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cgagcagcac catggccctc tcctccacgg ccggtcgccg gcaaggccgt gaacgtgccg 120
tcgtcgccg ccttcggcga ggctcgctg acgatgcgca ggacggcggg gaacgccaag 180
cgggctgcgg cgtcggggag gcccgtag 208

<210> 14053

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-D1

<400> 14053

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ccactcatcg ccgctcacgc ccttctctct ctctctcagc ctctacttcg ccgttgtagc 120
gaaccagcag gcgttctccc gcttcgtccg cttcaacgcg atgcaggccg tcgtgctcga 180
cgggtgctgct catcggtccc gacgtgctcg cgcagtcggt cgcgccctcc ggtgggggtg 240
ggttcgagat cttcgagagc atggagagca cgggtcttct cgtcctgctc gtcgccttgg 300
tgtacggcgg gtgcgcctgc gtgctcgga agaggagagg tctgcgccat tgtcgagat 360
gcaggggagc ggcaggtgat gtgactaaa gtcgtttct gcgga 405

<210> 14054

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-D11

<400> 14054

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catcatccag cccacgtcca agaagagcat cgcgcactac ggctctcccg aggagttcct 180
ctcccaggtc gactacctgc tcggcaggca ggctacggc ggcaagaccg actccgaggg 240
ctggttcgag accggcgccg tggccaccgc caacgtctg gagagctcga cccccgtgat 300
cgagggcaag cagtaccag ccgtgtccgt gctcacgagg acggcggacg gcgacgagg 360

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396

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-D2

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ttcccgacct tctccagcta cggcgaccgg ccggtgtacg gcgcgccgtc gctggagctc 180

ccgggggtca tcaagatcag ctgcattaga tcttagagta cactgtttta cacaatttgg 240

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agtaagcttt agccttttat gctacagtgt gt 332

<210> 14056

<211> 278

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-D3

<400> 14056

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gccgcggcgg tgcagccgaa gtgcgagcgc atccagtgcc agctgtacgt ggtggtggac 180

agcgccaacg ggttctagat acggcggtag accgacgcca tgtgaattac gacggggctc 240

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<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-D9

<400> 14057

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 agacaggaag tcgggtgggc tcggcgatct taaataccca cttgtttctg atgtgaccaa 180
 atcaatttca aaggcctttg gtgttctgat ccctgaccag ggtattgctt tgagaggact 240
 gtcatcatt gacaacgagg gaggatctca gcaactctacc attaacaacc ttgccattgg 300
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<210> 14058

<211> 233

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-E1

<400> 14058

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 tactggacca tgtggaagct gcccatgttc ggctgcaacg actccacca ggtgtacacg 180
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<210> 14059

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-E10

<400> 14059

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 ccgtagcggc acggcatggc ggccacggcg tactccgtgg cgctcctcgg cggcgcacgc 120
 ctgccggccg cctcctccc tcggcgccgc agcgtgtgcc accagcagct tcgcctccaa 180
 gacgcgccga ggctctccct gcaccgtgcc agggccgctt ccgaggacac gtcggcctcc 240
 ggcggcgacg agctcatcga agacctcaag gcaaagtggg acgccgttga ggacaagccc 300
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 ggcgcca 367

<210> 14060
 <211> 150
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-008-Q1-E1-E11

 <400> 14060

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 tgctccagcg aggattctgg gcaccaagct caacttcgcc ggctcctcgt gcggcgccac 120
 .cagagcgtcc cagcgcgggg gctcagacga 150

<210> 14061
 <211> 123
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-008-Q1-E1-E12

 <400> 14061

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 gagttcctgc tgctcacggt ggcgctggac aagctctacc tcacgccgct aggcaagtgc 120
 atg 123

<210> 14062
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-008-Q1-E1-E4

 <400> 14062

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 aaggagatga tgggtgcaaac ttttcctatg gcagcgcaga gatagaaaag atgggtggcta 180
 ctctgatagg aagagtaagc agcatggctg aaagatctag caaagacaat gttatgagtt 240
 cccgatcact ctctcatgaa aagtctgaac tcactttgcy actcgagcat ctagttcatg 300
 tctgcagtga cgtactagat ggaaaagcta accatgaaag gctcactgat gaagtttgct 360

tgatcctaaa gtggaagggtg agacgatgcc ttttgtgtcc tgaatgaagt agacattgtg 420

gag 423

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-E6

<400> 14063

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cagcgtccac agaaggcca gagagcacag agagtggag 99

<210> 14064

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-E9

<400> 14064

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catccaagat tctgggcacc aagctcaact tcgccggctc ctcccgtac gccagcgag 120

cgcccaccgc gggggctcag aagatcgctc ccctcctcag caagaagcct gccagaagc 180

gcaagccctc tgcggtgtcg tcctcgtctc cggacagcag cgacgagctc gccaagtgg 240

acggtcctga caggaggatc tacctgccgg atgggctcct ggaccgcgcg gaggtaccg 300

agtgcctcac cggacaggtc 320

<210> 14065

<211> 259

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-F11

<400> 14065

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ggctttctcg tccaggccat cgtcaccggc aaggggccgc tcgagaacct cgctgatcac 120

atcgctgacc cagtgcggaa caatgcatgg gcctacgcca ccaacttcgt ctccggcaac 180
 taagctcaac ggctatgcta tgccacttca ctgtctttcg gatcggagac ggtgtacgta 240
 cctgcattga ctgatgctg 259

<210> 14066

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-F2

<400> 14066

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 tctcttcggc gaggcccgcg tgacgatgcg caagacggcg gcgaaggcaa agccggcggc 180
 gagctccggc agcccgtggt acggccccga ccgcgtgctc tagctgcgcg cgctgtccgg 240
 cgcgcccccg agctacctga ggggcgagtt cccgggtgac tacggctggg agaccgctgg 300
 gctgtcgggc gaccggaaa cgttcgcaa gaaccgggag 340

<210> 14067

<211> 206

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-F8

<400> 14067

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 aagccgtatg ttgttgctga ccctgaaatc aaggaggagg ttgtctacat ctctctcgaa 120
 ttcctcatcc ttgctagcga tagactctgg gatgttctca ctaatgacta agctgttccc 180
 atggtcaatc ctaccagga gcccc 206

<210> 14068

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-F9

<400> 14068

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caagattctg ggcaccaagc tcaacttcgc cggctcctcc cgctacgcca cggcagcgcc 120
caccgcgggg gctcagaaga tcgtctccct cttcagcaag aagcctgccc agaagcccaa 180
gccctctgcg gtgtcgtcct cttctccgga catcagcgac gagctcgcca agtgggtacgg 240
tcctgacagg aggatctacc tgccggatgg gctcttggac cgctcggagg taccggatta 300
cctcaccgga gaggtccctg gagactatgg ctacgacct tttggcctgg gcaagaacct 360
agaggatttc gccatgtacc a 381

<210> 14069

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-G10

<400> 14069

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tgtgcaagtt gatgctgccc cattcaagca gtggtacctc actcactatg gagttgacat 180
tggttaggaag aagaaaacct ctgctgcaaa gaaggataat gctgagggac aagaggttga 240
ggcaacagct gaggaaacga agaagagcaa ccatgtcacg aggaagcctg agaagcgcaa 300
ggaaggacgt acccttggac cacacattga 330

<210> 14070

<211> 136

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-G11

<400> 14070

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cccgtgggtca accgcagtca ctacgacaac atcacctgtc ggaccaggac ggccgacggc 120
aacgagcgcg gcagac 136

<210> 14071
<211> 220
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-G12

<400> 14071

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ggacagaaac accagactca tcgagtgcgt gtgatctgga tggagcttgg agatgacgga 120
attgcgacgg atcctcatgt gccagcggct ccgcctgcgc tgaaccgctg tcatgcctag 180
catcgttgag gaaaggcgag ttcgtgttct gccgagcgtc 220

<210> 14072
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-G4

<400> 14072

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gcacgagctc gcccagagatg gcgaacgcga gatcgggtgt cgctgtgaac gatgagtgca 180
tgctgaagtt tggcgagctg cagtcgaaga ggctgcaccg cttcataact ttcaggatgg 240
acgacaagtt caatgagata gttgtggacc aggtcgggga tcgcgctagc agctacgatg 300
acttcacaga cagcctccct gagaatgact ggcgatacgc gatgtatgaa ttcgactttg 360
ttactgcaga ggatgtccag aagagcagga tc 392

<210> 14073
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-G5

<400> 14073

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gaacagaagt tagtgacctc gacttgtcaa atataagaga gctatgcgat caagtgctgg 120
cactttctga gtacagagcc cagctgtatg actattttaa aagcaggatg aacactattg 180
caccaaactc gacagcccta gtgggtgaat tagttggtgc tcgccttatt gcacatggtg 240
gaagtttgct aaatttagcc aagcagcctg gtagcacaat tcagatactt ggtgcagaga 300
aggctttatt caaagctcta aagacaaagc attctactcc taagtatggc ctcatctagc 360
atgcacctt a 371

<210> 14074
<211> 371
<212> DNA
<213> Zea mays

<223> -Clone ID: LIB36-008-Q1-E1-G9

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ccgctgttgg caggttcggc ctgtcaggaa aggcgcaggt gatgccgatg aagaatcggt 120
ctgatgggca aaggagccgc gtcactcttg catggctggc atataggcag ccgcaactgc 180
tactgcttga tgagccgaca aaccatctgg atactgagac cattgactca ctggcagatg 240
cgctgaatga gtgggatggt gggttggtct tggtagacca cgatttcatg ctgatcaagc 300
aggtcgctca cgagatctgg gtgtgtgaga atcaagaggt gacaatgtgg gaaggcgata 360
tcatggattt c 371

<210> 14075
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-H1

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aatcccgat gaagatcact tctttttttc ctttaagcca aggtacagat ttgcccgctc 180
aatttgcat tcctcacctg ggttacgctt acgcagtttc cgttgcagca aagactcgtc 240

tccactcgat tgttactca cagatagagt atgaaactcc cagtcacgtc tcaaagatgc 300
 ccttcatata gaccatccct tctcgctgaa cttgagggtc ttcctcatct gctcaacctg 360
 gacgtcatct ccctgcacaa ggatctccgg aacgttcccg tcatcggata ggatcatctt 420
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<210> 14076

<211> 149

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-H10

<400> 14076

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<210> 14077

<211> 278

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-H12

<400> 14077

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 cgcggcgccg cggcatggcc cgccggcaag tgcaagcggc ggaaggcgaa cgacttcgag 180
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<210> 14078

<211> 71

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-H9

<400> 14078

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gtaaaagcaa a 71

<210> 14079

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-A11

<400> 14079

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gcctccctag ccctgacgca ggacttctgc gtcgcgcgacc tgacctgcag cgacaegccg 180
gcggggtatc cgtgcaagtc cagcgtcacc gccaacgact tctagttcca cagcctggcc 240
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ttcccgggcg tcaacgggct tggcatctct gcggccatgc tcgacatcga ggtgggcggg 360
gtcatgccgc tggagacca cccggcgggc tcagagctcc tcttcgtgat ccagggcacc 420
gtcgccgccc gttcatgag ct 442

<210> 14080

<211> 255

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-A2

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ccacaacgtc gaggatgtct tgcaactgcg gatcaagctg cggctgcggc tcaagctgca 120
agtgcggcaa gaagtacctt gacctggagg agacgagcac cgccgcgcag gccaccgtcg 180
tcctcggcgt gggcccggag aagaaggccg cgccccgagt tcggccaagg ccgcgcggga 240
gtccggggaa ggccg 255

<210> 14081

<211> 285

<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-A6

<400> 14081

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taaggatgat cttagactcc caactgatga gactcttctg gccagatca aggaagggtt 180
tgaaagtggc aaggatcttg ttgtgactgt ccagtctgct atgggggagg agcagatctg 240
cgcgctgaag gatgttggcc ccaattaact tccctgcctt ggaat 285

<210> 14082
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-A7

<400> 14082

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tgaatcagaa aaaggagatc tgaaaacaag atgtcgatca ttggatagtg attctaata 180
atcaaataag tctagttctc caggaaataa gaaagaccag tctgattctg atggttgctg 240
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caatgatagt tcaggtggag ctgtgcttcg ttatgctttg cacctgcgat ttctgtgcc 360
ctccaagaaa aaatcctcga aatcaatgct tcgttgcaaa tctgatctat caacgggaac 420
atataacagc aatagct 438

<210> 14083
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-B11

<400> 14083

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cacggcgctc cccaggaatg ggcagcgggc gtcgtcctcc ttcctcggcg gcaagacgct 120
 gctgagacag gccgaggcgg cccggcgcgc gttcgccgtg cgcgcgcgg cggaacccaa 180
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 gcaggcggag ctggtgcact gccggtgggc gatgctcggc gcggcgggca tcttcatccc 360
 ggagttcctg accaagatcg gcgtcctcaa cacgcccttc tggtaacacg ccggcgagca 420
 gcagtac 427

<210> 14084

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-B12

<400> 14084

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 gcgagcgcgc ccagcggagc attgtgtgcc agggcggcgag cagcatctcc gccgaccgcg 240
 tccccgacat ggagaagcgg aagctgatga acctcctcct cctcggcgcc atctcgttgc 300
 ccaccgtcgg catggtcgtc ccctacggcg ccttcttcgt ccctgccggc tccgggaacg 360
 ccggcggcgg gacctacgcg aaggacaagc tgggcaacga catcacggtg gaggcgtggc 420
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<210> 14085

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-B2

<400> 14085

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acctcaagcc actcatcgac aagaaggcgt ggccgtacgt ccagaacgac ctccgcctcc 180
 gggcctccta cctgcgctac gacctcaaga ccgatcatgc ttccaagccc aaggaggaga 240
 agcacagcct caaggagctc accggcaagc tcttcagcac catcgacgat cttgacaatg 300
 ccgcaaagat caagagcacc ccggaggccg 330

<210> 14086

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-B4

<400> 14086

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 aagctggaga aggtgtccaa gaagcaggag gaggggctcg tcaccaaaa gtacaagccc 180
 aaggagccgt acgtcgggag gtgcctgctc aacaccagga tcaccggcga ccaagcgccc 240
 ggtgagacgt ggcacatggt cttcagcaca gaaagcgagg tcccctacag agagggcagt 300
 ccatccgctg ccaccccgat ggccagggca aaaacggaag ccgcaaacc tcaggctcaa 360
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<210> 14087

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-B5

<400> 14087

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 cgtgattgag tcggtggact cgctgaaccc gttcatgcac gcccggtggg tcgccttcat 120
 ggtggacaac tgctccaaa cggctcgctt gggatccagg aagtgggcgc ctgccttcga 180
 ctacatcctg acgcagcagg ccttcgtggc ggtggacaag gacgccccga tcaaccagga 240
 tctcatcagc aacttcttgt cggaccctgt ccattggtgcc attgaggtct gcgccgagct 300
 gaggcccacc gtcgacatct ctgtgcctgc caacgccgac tttgtgcgc cggagctccg 360

gcagtcttcc tagattgagg cagtgaacgg agaggggaaac ggagagagaa agagaggatt 420
tcgtgtcccg ag 432

<210> 14088
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-B6

<400> 14088

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cgtggaggag gatctggttt ccaccgactt caccgggtgac agcagggtcga gcatcttcga 180
cgccaaggcc gggattgccc tgaacgacca cttcatcaag ctcgtctctt ggtacgacaa 240
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gagagagata tttctgcctc cctatcgtgg gtcgtcccca atggcctttg gtcgcagacc 360
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<210> 14089
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-B7

<400> 14089

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aagaagtcgg aggggtgagct ttttgagaca gataaggagg cgtccaagtc tctgcctgat 180
ttcaaaaagg atgaccagaa ggccgtggat gctgctctga tcaaggctat tgaggctatc 240
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gagatgggtc tctaaaccga gttttggagt tcggaggaag tcgctttggc tgtactctct 360
tgtgacaagc cccacgagat ggtctcccag agctgaaggc ctaccttggt tcattctgct 420
tgaagtctgt caaataat 438

<210> 14090

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-009-Q1-E1-B8

<400> 14090

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acgccttcag cacctacggc gaggtcctcg agtccaagat catcctcgat cgggagacgc 180

agagggtccg cggtcttcggc ttcgtcacct tctccacgga ggaggcggat cggaacgcca 240

tcgagggcat gaacggcaag gagctggacg gccgcaacat caccgtcaac gagggccagt 300

cccgcggcgg ccgtggaggc ggcgggcggc gcggggtacg tgggtggcgt ggaggcngcg 360

gctacggcgg tggcgggcgc cgtgatggcg gcgggcggcta cggcgggtggc ggcggtctacg 420

gtggt 425

<210> 14091

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-C2

<400> 14091

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atggccgcgc ccaccatggc tctcacctcc cgcgcgctcg tcggcaagcc ggcgagcagc 120

accaggggacg tcttcggcga ggggcgcac accatgcgca agactgctgg caagcccaag 180

ccagcggcgt ccggcagccc ctggtacggg gccgaccgcg tctgtacct gggcccgcgtg 240

tccggccagc cccaagcta cctgaccggc gagttccccg gcgactacgg ctgggacacc 300

gcg 303

<210> 14092

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-C3

<400> 14092

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accgaccctg ctctgccac aacatttgca catttggaag ctactaccgt actttccaga 180
ggattagctt ccaagggtat ttatcccgca gtggatcctt tagattcaac ctcaactatg 240
ttacagcctc ggattgttgg caacgaacat tatgaaactg cgcaaagagt taaggaaact 300
ttacaacgtt acaaagaact tcaggacatt atcgcaattc ttggattgga tgaattatcg 360
gaggaggatc gtttaactgt agcaagagca cgaaaaatcg agcggttctt atcacaaccg 420
ttctttgtgg caaaagtttt tac 443

<210> 14093

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-C4

<400> 14093

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accgcgagct ggaggtgatc cactcccgtt gggccatgct cggcgcgctc ggctgcgtct 120
tccccgagct gctctccgc aacggcgctca agttcggcga ggccgtctgg ttcaaggccg 180
gctcccagat cttcagcgag ggcgggctgg actaccttgg caaccccagc ctgatccacg 240
cgcagagcat cctcgccatc tgggcctgcc aggtcctgct caagggcg 288

<210> 14094

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-C5

<400> 14094

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cgccaacagg gccaggacgg ccgccgtcgt cagggcggtcc gccgaggcgc aggcgcaggc 120
 gggccgcgcgc gccgtgctcg ggctgggtggc cactggcatc gtcggcggcg ccttgctgca 180
 ggcgggtgcac gccgagaccg tcaagaccat caagatcgga gcccgcgcgc cgccctccgg 240
 tggactcccc gggattctga actctgacca ggcgagggac ttcgacctcc ccttgaagga 300
 gcggttctac ctgcagccgc tgccgccggc ggaggcggtg gcgagggtga agacgtcggg 360
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<210> 14095

<211> 411

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-009-Q1-E1-C6

<400> 14095

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 cacgctcgcg cagggggtca agggtgaccc cacgtacctg gtgggtggagc aggacaagac 120
 gctggccacc tacgggatca acgccgtgtg cactcacctc ggctgcgtcg tgccgtggaa 180
 cggcgctgag aacaagtcca tctgccctg ccacggatcc cagtacaaca accagggcaa 240
 ggtgggtcgt ggaccggcgc ctctgtcgtt ggccctgggt cagcccgacg tcgacgacgg 300
 caaggtcttc ttctcncgt ggggtggagac cgacttcagg accggcgagg acctatgggt 360
 gaaggcatga ggatgatcgg gaaccagcgg tgctcagtgc tcacacatga g 411

<210> 14096

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-C7

<400> 14096

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 caccgggtcg gccaaaggcca cgatcttcga tgagtacctc gagaagagca aggccaacaa 120
 ggagctgaac gacaagaaga ggctggccac cagtggcgcc aactttgcgc gcgcctacac 180
 cgtggagttc ggcagctgcc agttccccta caacttcaact gggtgccagg acctcgccaa 240

gcagaagaaa gtccccttca tcagcgacga cctcgagatt gagtgcgagg ggaaggagaa 300
gttcaagtgc ggctccaacg ttttctggaa ctggtgaagc aactagcagc agcgtctg 358

<210> 14097

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-C8

<400> 14097

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aaggcggcga tgggtttcat catggacttc gcggagaatc tgatcctccg tctgatggag 120
gaccggaca agcgcgacca ggttcggcgg gagcatgtct acaagatgaa ggagcgggtg 180
gagcgacta aggcggcgtg gagcctccct ctgcgccctt acggcttctg gaccttcgac 240
cgcttcaact cgcagctctc ctgggatccc cagatcagcc aggcgcgccg ccgtcgggac 300
ccctacgacg acctcatcgc ccgccactct ggctcgccgc cgtcttctg aacacccgtt 360
ccgatct 367

<210> 14098

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-D10

<400> 14098

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cgacgcaggc gccacacatg gcatcccagc tctccgccgc cgtgccccgg ttccacggcc 120
tccggggcta cgccgcgcc aggtccgcgg tggcagcgct gccgtccgtg aggggtgggca 180
ggaagaggtc gtcgtcgag ggcacccgct gcgactacat cggctccgcc accaacctga 240
tcatggtgac gacgacgacg ctgatgctgt tcgcggggcg gttcgggctg gcgccgtccg 300
cgaaccgcaa ggcgacggcg gggctgaagc tggaggcgcg cgactccggc ctgcagacgg 360
gtgacccgcg cgggttcacc ctgcgccgaca cgctggcctg cggcgccgct cggcacatcc 420
t 421

<210> 14099
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-D11

<400> 14099

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ggctccggct tcgagcggct gctggagcag ctggcccaga tggaggcccg cggcggctctg 120
gcggcgcgcg cccgtgacgc gccgcggcg tccaaggccg ccgtggactc catgcccgcg 180
ctccgcgtcg gcgccgcca cgtcgcggcc gacgcgcact gcgccgtctg caaggaggcc 240
ttcgagctgg gcgccgaggg cagggagatg ccctgcgcc acatctacca tgccgactgc 300
atcctgcctt ggctcgcgtt ccgcaactcc tgccccgtct gccgccacga gatgcccgcg 360
gacaacgccg ccccgcgcg tgcgcgcgc gccgcgcgtg acgaggaccc agggtcggcc 420
tcaccatct 429

<210> 14100
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-D12

<400> 14100

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ctcccgttct cctccgcctg cccccaccgg ctccccttgt acacgagcgc cggagacgcc 120
atggcggcgg cgcagccgaa gccggccaag aggctgggcg gcatggcgga ggcgctcgcc 180
atcgccgcgg acctcggatt cccgcctct accacgcagg aagatcagac tagctccgac 240
aaaagcgatg atttggtgaa ggttttgagg gaactgactg tcgtgcagag gaacattgcc 300
aacttgcaag tggagctaca gggaagaaag gatgataaaa acattgctca ttgactcat 360
gtgagtgaga tggaaaagaa gtgcgagtct ttggccagaa tgactgcaat ttgaaagat 420
gtaattcaga acaagg 436

<210> 14101

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-D5

<400> 14101

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gcttcttttg caccacaagg tgcaggatgt cttgcaactg cggatcaagc tgcggctgcg 120
gctcaagctg caagtgcggc aagaagtacc ctgacctgga ggagacgagc accgccgcgc 180
aggccaccgt cgtcctcggc gtggcccccg agaagaaggc cgcgcccgag ttcgtcgagg 240
ccgcggcgga gtccggcgag gccgcccacg gctgcagctg cgggtggcaac tgcaagtgcg 300
acccctgcaa ctgctgatca catcgatcga cgaccatgga tatgattatt atctatctag 360
cttgtggtgg tggttgaaca ataataagcg acgccgagct ggctgccata catacgtaat 420
gtgtggtgtg tgtga 435

<210> 14102

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-D6

<400> 14102

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gtcaccgagg tatgggcgct cgctggatgc ggcccagcgt ccaaggcggc ggcggtagcg 180
gtagcggcgc aggagttgcc ggcgagcat ccttctctg ccgcagcggg aggaggggag 240
gccaagaaga gagccgtgcc agtgtcgttc agaggcgtca gcagcggccg tggccaggac 300
caccagccgt gaggccg 317

<210> 14103

<211> 83

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-D7

<400> 14103

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taaaatggcg ttgcgtggct etc 83

<210> 14104

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-D8

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ccgtgcgtgt gtgttggtag agatggctac agcagottac gctcccatgg cgagccaggt 120
gatgaagagc agcccgggtgc actcgaggcc gaggggcctg tcaggcgctg cgctcacgcg 180
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cagcccgcctc atcgcggtgt acctctccaa cctgccggcc taccgcaccg ccgtgagccc 360
gctgctgcgg ggcgtccagg tcggcctcgc ccacggctac ctctcgtcg ggcccttcgc 420
gctcaccggc ccgctcggc 439

<210> 14105

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-E4

<400> 14105

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ccgtgaagcg aacagactag ctgaactgcc gtcttgagcg gtgctgagca gaggacggtc 120
catccaacag cgatggagtg cttgtttttt tccctttctt tcccagttgt gttctgaaac 180
taatttaagc tgtcgcggtt tttatttgat agtgagtggg gttgcaaagg tgctatcttg 240
taacggtgaa gtcctaactc atctaacaga tctgcctccc atgacctgt aatatgccat 300
tttgttcttg 310

<210> 14106

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-E5

<400> 14106

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ctcagggcct gccgcccctc ggccgcgcgc cctctctctt cgccgtcgtc tgctccaaga 180
agaagatcaa gaccgacaag ccctacggga ttgggggtgg cctgaccgtc gacgtcgacg 240
ccaacgggag aaagggcaag ggcaaggcgc tgtaccagtt cgtcgacaag tacggcgcga 300
acgtcgacgg atacagccca atctacaacg aggatgactg gtctcccagc ggcgacgtct 360
acgtcgggtg caccactggg cttctgatct gggccgtcac cctcgctggg attctcggcg 420
gccgcgccct cctcg 435

<210> 14107

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-E6

<400> 14107

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acggccccga ccgcgtcaag tacctcggcc ccttctccgg cgagcccccg agctacctca 180
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tcggctgctt cttccccgag ctgctctccc gcaacggcgt caagttcggc gaggccgtct 360
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<210> 14108

<211> 366

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-009-Q1-E1-E7
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 tctaaacgta cacagctcac tgtcttccac atcatgttaa ttggcaaaat gttacgcctt 180
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<210> 14109
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 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-009-Q1-E1-E8
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<210> 14110
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 <212> DNA
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 <223> Clone ID: LIB36-009-Q1-E1-E9
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 cagtatcatc tgtatatccc catgcatggg gtttcgtttt gtgcgcttac ttctggcttg 180
 ccagcgtatg gttcaaaaaa aaagacacag aat 213

<210> 14111

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-F1

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 caggcggcgg ccatcatgaa ggcggcgcg cccgagatcg cggcggcgct taacaagatg 180
 aagaaggaga ccaccgcgga gctggaggcc aagctggacg agggacgcag ccgtgtggag 240
 gccgagctcg tagaggcgct cgccaacctc gaggcgacga aggaggaggc tgtcaaggcg 300
 ctcgacgccc agatcgctc gtcagtgat gagatcgtca agaagggtgct cccatccgcy 360
 tgatgaaacc aaaccgggcc tgccttatcc tacgactata gttacatgaa catcataaat 420
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<210> 14112

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-F10

<400> 14112

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 ctgtcaggcg ctgcgctcac gcggccccgg ccccggttca gcgtcgtcaa ggccgccatc 180
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gcctaccgca ccgccgtgag cccgctgctg cggggcgctg aggtcggcct cgcccacggc 360
 tacctcctcg tcgggccctt cgcgctcacc gggccgctcc gcaacacgcc cgtgcacggg 420
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<210> 14113

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-F11

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 ctggtgatac tgagttgaac cttcgaagga ggggtgcttc atactccatt ctcttttatg 240
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 accctcagat acatcacttt actgttgaaa aatcctctg 339

<210> 14114

<211> 208

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-F12

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 caggccatca accggttgta tctacaccga atcctcaaga agacatcgta tgaactcctc 180
 aacggtaaca aaccagtat ttcatagt 208

<210> 14115

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-F2

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cggtcgcggg ctggagctgc agacgcacgc tttccacgcc tgcacaccac cacacgcgc 180

ggccgtcacc cagagctcgg gttgtcgccg tccgagccgc cggcactcag cgggcgacct 240

ggttgcccgg actggaccgg ccccatacc tcgacggcac actaccaggt gacttcggct 300

tcgaacctct gggcctccgc gaggagcccg aagccctgaa gtggtacgtt cacgccgagc 360

tcgtgcactg ccggttcgcc atggcagggg tccccggcat ctttttact gacttgctcc 420

gcgtatcagg gaacacgatc tcccc 445

<210> 14116

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-F3

<400> 14116

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gattgccaca atctgtacaa gaattcattc acatatacaca gtcttcaacg ggacaggcct 120

ttggattttg atgaggcaaa ccaatatcta gagaaatgtg aaagagataa atcgcgtgtt 180

cttgttcatt gcatgactgg aaaaaacagg tctgctgcta ttgttgacgc cttcttgatg 240

aagtctagag ggtggagact tgcacaatct tttcaatggg tgaaagatcg aagaccacag 300

gttcaactga cagatggta gttcatacc ctttgaagct tgttgactaa ttaagacacc 360

gtctctacta cattatgaat cattgggtcc ttgcctatca catggttaca ttttttctca 420

<210> 14117

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-F6

<400> 14117

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tccgctaagc cgacggcgta cgaagccctc gccgactacg acttcccccc ggggatcctt 120
 cccaagggcg tggtcgccta cacggtcgac aacgccacgg ggccttcac ggccacgctc 180
 gatgcctccg cgtccggcgc gggatcctcc atctgcgagt tctccatcga gggctcctac 240
 tcgctacgct accagaccaa gatcaccggc aagatctccc ccgaccacct caccgacctc 300
 caggggtgtct ccgtaaggt cctcttcttt tggctcaaca tcgtcgaggt caccgccat 360
 ggcgataatc tcgagttctc cgtcggcatc gcctccgcgg acttcgggat tgacaacttc 420
 ctcgagtgcc caacct 436

<210> 14118

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-F8

<400> 14118

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 acgagctgat ccatgccaga tgggccatgc tcggtgccgc tggcgctgtc atccagagg 120
 cctgcaacaa gttcggcgct aactgtggcc ctgaggctgt ctggttcaag accggcgcg 180
 tgctcctgga cggcaacacc ctcaactact tcggcaacag catccccatc aacctggtgg 240
 tggccgtgat tgcggaggtc atcctcgtcg gggcgccga gtactaccgg atcaccaacg 300
 gactggacct tgaggacaag ctgcaccccg gtgggcccctt cgacccctg ggctggcca 360
 ggcacccga ccaggccgc atcctcaagg tgaaggagat caagaacggc cggctggcca 420
 tgttctccat gttcgcc 437

<210> 14119

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-F9

<400> 14119

gtccgaagct atcaaaccat cgaaactata ggacttcata cgagcgccctc tttgaacagg 60
 tacgtagact ggaaaccgaa agcgatagcc taaagaaaga cgccgccatc tacaactttg 120

tgcaagagcg tcttcagaag tcagcgccat acatgatgat catggagctg agtgcaatgg 180
agctggacgc tcaagaaata tcgttcgagg agcttctggc tcgggagaag gaggacactg 240
ccttctggca gcgcaacggg aatatgagat cagtctcatc caagtaggac agaatgcccc 300
tgctacttgg gctcactgac gatagcagac cttcaacatc ggtagtgtct aggcacgaga 360
ccctttggag cagctgctgc atg 383

<210> 14120

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-G10

<400> 14120

cagacgcatt ggcggacgcg tgggcatcga tgaaccaagc aatgtcaaga atgaacctga 60
gagttcaact aaattgcaag gccaaacagc tgcgtaccac aagccatagc tgcgaccatc 120
aagagttgct gggtttcttc taggcaactt cctgcttgat gtggacagtc cagaaaacag 180
aagtgaatcc gcaatacgtc cctgccatct caaatttgac ttgggttacac ctatctgtga 240
caatgttgaa tgtatgagat cccatggcac tagtgaagtt cccaggtgtc cacctgggaa 300
tgcttgcggt tgagagagac gatactcaga gtgcccatgt atacatgacg cccatgatct 360
catt 364

<210> 14121

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-G11

<400> 14121

cgagttcaac cgcattgcga agaggattgc tcgtatgcta accgtgaaaa gagagcggga 60
aattgaacaa ggaatcaata aaagattgtc tacgaagctt gataggaaat ggaagcagag 120
cattgtggtc agaccaccac catctctaag ggggaacaaa gaggagtaga aagccgcaaa 180
aagagggcaa tgtgcaaaag tcgtttcatg cgagtgttgc aggaaagtcg cttcatgatt 240
tcaaccctta ttgcgttggt atgtattcca tgtttacatt ttgctaagca ttgctatctg 300

aatctgaatt tcagttgtta gtctcatctg taaattttga cttattttaa ttacacttc 360
tatctgtgtt atcagtaatt gatgatggca gtcatttgca 400

<210> 14122

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-G12

<400> 14122

ccagcttgct tccctatcac aacgtcgccg ttgtgcttcg ctgctgctgg gaacccacg 60
cgccgtctca gctcgtcttc ggctcctccc gtcgcgaccg agtgtagtaa cgagcttgcc 120
gtcgggtccag gtccccggat atgactcgctc tccctcgacc agaagtcgctc gtaccgcagc 180
caagtctaca gcgctacctc tagctcgccg tcacccatgc ttctctgggt gtcaacctcg 240
ctggctgctg tcgatcccca gccgcgttac caacacactc gtcacccgctc cgaagaatac 300
ctagaagtgg tgtttgaagg agtctacacg agtgccctgct catcaagtgg atggagctat 360
ctaactgggt attgggtaga aaggctctga gcctcttctc tgcaacatag gtgatgagga 420
gtactctatg tg 432

<210> 14123

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-G2

<400> 14123

gtgggacgac gcaagactct aaagtgagtc gtaatatatc gcaagatata gaatgggtgat 60
ttcaggtgcc ctagttgggt ttacacacaa ctcaagaagc tcttgtacaa gatcctcgac 120
cccagcccag acagaggaat ttcagtgcag aagataaaaag agtctacctg gtttcgaaaa 180
ggccctgtgg agaccgctac agtaaaggag aaaattctga gtgagaatga caccacagat 240
gctgctccag ccgttgctat gaggcgcaag aagaatgttc atgaagacgt gaagcccccg 300
actgtcacia gcttaaacgc ctttgaaatt atatctttct ccacaggatt ggacctctct 360
ggcctattta tcagaaacga gtgtaagaag gagacgcggt tcaattctga taaggggtcc 420

cgtgtccatc aatctcg

437

<210> 14124

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-G5

<400> 14124

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ttgctcatca aggatatcat cctgttcaga cttcacatat agccactcct ggcgtcccat 120
acatgctatg aaactccatc agatgcgtgc tgtgagctca atacgtataa gttgtgctgc 180
cactaaacct gcaaagactc ctgctgaaga agaattgaaa gttaagcggc aactgctatc 240
agaaaagcgg gtacgaagtg tcgatgtgaa ggaagcactg cgccttcaaa aggaaaacaa 300
ctttgtcatt cttgatgtta ggccagaagc agagtttaaa gaggctcatc cacctggcgc 360
catcaatgta caaatataca gattaatcaa ggaatggaca tcgtgggata ttgcg 415

<210> 14125

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-G8

<400> 14125

cagacgcgtg ggcggacgcg tgggtttcag aggaactcca aacgtgctcg ctcacaaaaa 60
tccagaaact ggagttttga aacagacgag gaggatgaag tatcagctcc atcagaggta 120
tctttggcac tacaagctct tgggttgagc acttctggtc cgcttaaact tgaagatgtt 180
aaaagcgcac accgagcatg tgcacttaga tggcatccag atcgccacaa tggatcatct 240
aagtctacag cggaggagaa attcaggcat tgcagtgcag cagacaagac cttatgtgat 300
actttggccg ctgcatagat aattttgaat gagcatggac tctgggatga gcccttcca 360
aacttt 366

<210> 14126

<211> 426

<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-G9

<400> 14126

cagacgcatg ggcgacgccg cgcggcgccg gcaacgtgtg gcgcagcgtc ttccaccgcg 60
ggagcaacct ggccaccaag ggcatgggcg ccaacctctt cgaccggccg cagcccaact 120
ccccaccgt ctacgactgg ctctacagcg acgagaccag gagcaaccac cgctagatcg 180
ggcgagatgg atggacagtg aagaggccat gtttgctggt ccttggtggt atctaaaacg 240
cacgcatgct ctattatagc tagtcatcac tatatatata cttgtgtttg tgtattgttg 300
ttcttgttct gctggtgtct ccgccgttta atttgacctg tgttatggag tgagtgatat 360
atgtgccgtc actcctagta tatagtagtg agtgactaat tggatatgtg agtactgtac 420
tatctt 426

<210> 14127
<211> 449
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB36-009-Q1-E1-H10

<400> 14127

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ccatcacgcg cccttccttc acggccgcgc ccgctcgcgc agtggtcagc aggaggtcct 120
tcaccgtgcg tgccctctctc cgcaaggcca ctgccaccgc cgccgtggcc gttgccgcc 180
gcgtccctgct tgccggcggc ggcgccatgg cccaggaggt gctgctgggc gcaggcgacg 240
gcggtgctgt cttecgagccc agccagttca ccgtcaaggc cggcgacacc atcaccttca 300
agaacaacgc cggcttcccg cacaacgtcg tggtcgacga agacgaggtg ccgagcggcg 360
tcgacgcctc caagatctcg cangaggagt acctcaacgc gccaggcgag acctactccg 420
ttcacttcac cgtgccgggc acctacggc 449

<210> 14128
<211> 431
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-009-Q1-E1-H11

<400> 14128

cacgtacgca cgcaccggga caccagcaac ccccaacagc gccactgtcc agtgcgcgcg 60
tcaagcttgc ttagctagcc gccatggcct ccctcgccgc cgtctccgtg aagcccgtgg 120
ccatcaaggg tctcgccggc agctccatct ccggaaggaa gctcgccgtc gccaggccgt 180
cggcccgtc catccgcagg ccccgcgag ccgcccgtgg ggccaagtac ggcgacaaga 240
gcgcttactt tgacctcgac gacatcggca acaccaccgg acagtgggag ctctacggct 300
ctgacgcgcn ctcggcctac aaccgctac agagcaagtt cttcgagacg ttcgcggtc 360
cgttcacaa gagaggtctg ctgctcaagt tctgtctgct gggcgggcgc tcactttctg 420
gctacgtcag c 431

<210> 14129

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-H12

<400> 14129

cacgcgtccg cttcgccgca ccagcgccag cccgcgccgt ggtcagaagg aggtccttca 60
ccgtgcgcg cttctctccg aaggccaccg gcaccgccc cgtggcaatg gctgccagcg 120
ccctgcttgc cggcggtgcc atggcccagg aggtgctgct gggcgaggc gacggcgggc 180
tcgtcttcga gccagccag ttcaccgtca aggcgggga caccatcaca ttcaagaaca 240
acgccggctt cccgcacaac gtcgtcttcg acgaagacga ggtgccgagc ggcgtcgagc 300
ccaccaagat ctcgcacgag gactacctca acgcgccagg cgagacctac tccgtcacc 360
tcaccgtgcc gggaacctac ggcttctact gcgagccgca tcaaggagcc gggatgg 418

<210> 14130

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-H4

<400> 14130

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ccggcaacat cacgttgagc gtcaccaaga gcaacccgga gaccggtgaa gtcacgcgtc 120
tcttcgaaac cgtggagccg tctgatagcg agctccgtgc taaggcgccc attgatgtca 180
atatacagcg ggtctggtac gctcagctcg agtgattcga gtgtctaact gctacgtgtc 240
cgaccgccgt catggatctt gggaaagggt atgtatacca tggaaaactt tggagagcac 300
atgatgaatc gtgtatgtaa tgtacttggt aatgcaaatt cgggctgtcg cttttttact 360
c 361

<210> 14131

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-H5

<400> 14131

gtcatccgc ccaactacgt gtggcatgtc cctgaccca gtggctctcc tctcagatcc 60
tctctcagga gtttctatgg caaagctcca gctgtcgtag agctgtgtgt gcaggctggg 120
gctgaaatac ctgacgagta tcgggccatg atgaggactg acattgtcat cccggactct 180
gtggaagctc ggatggctgc ataacaaca tgttctgagc ttctacgact actatcctgc 240
agttcttgtc cagagtacag attccaacca aatgtgccgc tttctgggca tgctgtgatg 300
gtgggtctct tagccctgtg gtaattactc aaggagcagc agatgcatag tttgtataat 360
ataattagct tagctaaatc atgatcgttt gggatttaaa g 401

<210> 14132

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-H6

<400> 14132

ggagaggaga gatgatgatg atgccgacgg cggcgctcgt gatggacgat cttgtcgagg 60
agttcctcat ccgcctcccg cccgacgacc ccgcgagcct cgtcaacgcc tccctcgtct 120

gcaagcggtg gagccgcctc atcgccggcc gcgtcttccg ccgcaagttc cgcaagatcc 180
accgcgccaa gctgctgcac atggcccggg ggcaggtcta taggcagcgg cggcgacggc 240
ggcagcggca gtgatggagc ggcccgtccg gtccgaccgt cgattggctg cttgctctgc 300
atcttctggc ttctgcaacc aggaagctga ctgaacgctc gctattgcca ataattaatt 360
agtactatctt tcttcgtttc ttttttttat ttgtcgtata cgaactaaaa cagagttagt 420
gataatgata atgat 435

<210> 14133
<211> 269
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-H7

<400> 14133

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catcatcgct gcaaaactcac aaatgaaaac aagggaacct tgtagcaaaa aaaaaaagaa 120
gtggacagaa taatgaataa gcatgtcaaa tatctcttga gtatctatctt gttcaagtat 180
gaatgacttt gtacaagtat caaagattgt gagtgggaacc aaattaagca gggcttttgt 240
caaaaagaaa taagctaaaa gactacgag 269

<210> 14134
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-H9

<400> 14134

aaggaagagt gcctgactgg agcaaggctt ctgtgcagga gatgaaggat aggttcgtcg 60
ctgttgggtt gggtcctcgc cagcttgctg tcatgtcagc gttccttgga cctgaccagg 120
ctgctaccga gggacgactg atagctgac cggattgccg tccatgggtg gagaagtacc 180
agcggagccg cgagaccgtc tcccggactg actatgaggt tgacctgata accacactca 240
caaagctgag ctcccttggc cagaagataa actacgaagc ctacacatac cctaagcaga 300
agattgacct gggaaaactg aaactgtaag agttgattgc cgggcacctg catcggccgt 360

atccaggaat cgggagctaa ttgtatggta ggctctgtct gctagagtga tttgattcgg 420
cgctgac 427

<210> 14135
<211> 258
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-A12

<400> 14135

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aattttcata aaatgtgcag taaacagcac ttcgcaaggc tgccgatcat ataagccgcc 120
ttcggccttt ttattgtatc tgggctccat ttcgtgaatt aaacctacgc aattcgcgcg 180
tcttaactgc taaaaaagaa aaaagaaaaa aataaaatca aaaaaaata ttaaaacaaa 240
aaaaacatga agccagac 258

<210> 14136
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-A2

<400> 14136

cccacgcgtc cgcccacgcg tccgtgcagt tcgaactgga ctgctggac cagaacctgg 60
ccaagaacga cgccggcggc atcatcggca cccgggtcga gtcctccgac gtcaagtcca 120
ccccgtcca gccctacagc gaggtgttcg gcctccagcg gttccgcgag tgcgagctca 180
tccacggcgc atgggccatg ctgccaccc tcggcgctct caccgtcgag tggctcaccg 240
ggtcacctg gcaggatgct ggcaacgtgg agctggtgga tgggtcctcc tacctgggcc 300
agcgcgtgcc gttcaccatc tcgacgtca tctggatoga ggtgcctgtg atcggctaca 360
tcgagttcca gcgcaacgcc gagctcgacc cggagaagag gctgtaccgc gcggctcc 418

<210> 14137
<211> 288
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-A3

<400> 14137

atcagaatca cgatttctca gatactggag catccttggt tcaaaaagggt gtacaagcct 60
cctgttttttg acgagaaata ccaaactaac ttggatgacg tggatgctgc ttttggagat 120
tcagaagacc ggcatgtgaa agaggaaact gaacatcagc caacctcaat gaatgcattc 180
gaactgattt ctctaaacca ggcactgaat ctggagaatt tgtttgaagc agaggaggag 240
tataaaagag agacaagatt catctcacag tggcccccaa aagaagat 288

<210> 14138

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-A6

<400> 14138

cccacgcgtc cgcacaagcc atggcgtcca tgaccggcct ctgcagggc gttctgccca 60
gcaggcgcgc cgccaacagg gccaggacgg ccgccgtcgt cagggcgtcc gccgaggcgc 120
aggcgcaggc gggccgcgc gccgtgctcg ggctggtggc cactggcatc gtcggcggcg 180
ccttgctgca ggcggtgcac gccgagaccg tcaagaccat caagatcgga gccccgccgc 240
cgccctccgg tggactcccc gggactctga actctgacca ggcgagggac ttcgacctcc 300
ccttgaaggc gcggttctac ctgcagccgc tgccgccggc ggaggcgggtg gcgagggtga 360
agacgtcggc gcaggacatc atcaacctca agccactcat cgacaagaag gcgtggccgt 420
acgtccagaa cgacctccgc ctccgggcct cc 452

<210> 14139

<211> 65

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-A7

<400> 14139

cccaagcgtc cgcagatgca ttggagtga ttttggaggt cgcgcagggc gttctgcaca 60
acagt 65

<210> 14140
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-A9

<400> 14140

cggacgcgtg ggcgcggagt ggatgcccgg ccagccacgc cctgcccacc tcgacggctc 60
 ctctcccggg gacttcggct tcgatccgct gggcctcgcg accgtgccgg agaaçttcga 120
 gcggttcaag gagtcaagg tgtaccactg ccgctggggc atgcttgccg tccccgggat 180
 cctggtgccg gaagctctgg gcctgggcaa ctgggtgaag gcgcacgagt gggcgggcgt 240
 ccccggcggg catgccacgt acctgagcgc cccggtgccg tggggcacgc tgcccaccat 300
 cctggtgatc gaggctctgg ccatcgctt cgccgagcat cagcgcacca tggagaagga 360
 ccccgagaag aagaagtacc ccggtggcgc cttcgacacg ctcggc 406

<210> 14141
 <211> 445
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB36-010-Q1-E1-B10

<400> 14141

agcgagtacg gccgaccaga ccaatggcac tgccggtacc catctcctcg acccacgggc 60
 tggcctcttc gccagcgccc atctcctcca cgacgacgtg ccggccggcc gccgccagt 120
 ggagcttgat cccgccagct gccttggtcg cagttgccat ccgctgggcg tcggcgtcgg 180
 cgtcccaaaa gaggggctg ctgctgacga cggcgagggg cggcgaggatc ctcgcgccgg 240
 tgaggctcag cgggatcgag acgacgacga cctcggtggg agctgaggcc gtcaccgggc 300
 aggtcacgga ggtcaacaag gacaccttct ggcccatcgt cgaggccgcc ggcgacaagg 360
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 tccangagat gtccgagaag aacct 445

<210> 14142

<211> 427
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-010-Q1-E1-B11

 <400> 14142

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 tggccagccg cccggcgctt tccaccagct tcacgcgggg cagccgggtg tcggcgagga 120
 accccctgat gagcaggaac ctggagagga atggcacgat cacctgcatg acgtttcccc 180
 gggactggct gcggaggagc ctgagcgtca tcggcttcgg gctcatcggc tggatggggc 240
 cgtccagcgt cccggccatc aacggcaaca gcctcacggg gctcttcttc tccagcatcg 300
 gccaggagct ggccacttc accacgctcc cgcgcgtcac ctcccagttc tggctgtggc 360
 tagtgacgtg gcacctgggc ctgttcacgc tgctcagctt cggccagatt ggattcaagg 420
 gcatgac 427

<210> 14143
 <211> 223
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-010-Q1-E1-B2

 <400> 14143

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 ctaaattgtat tctgaaaacg tttatacata gcatagtagc aactggact ttttttttgt 120
 ttgataacat tagtgtgtgc gcgttacttt gccatttctc atgaaagcca tggcaaaata 180
 agaaactttg gacgtgttac tagctccggg atatcacctt tgc 223

<210> 14144
 <211> 384
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-010-Q1-E1-B3

 <400> 14144

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aagcgctgcc acaagcccga ccgcaaggag ttcaccaagg tggcggcgcg gacggcgatc 120
 gggttcgtcg tcatgggctt cgtcggcttc ttcgttaagc tcatcttcat ccccatcaac 180
 aacatcatcg tcggttccgg ctaggcttac aggagtacac ggcgactagc atgggagtag 240
 tgcaatactt ttggggagcaa tagataacga ggatcctggc ctttcgaata gtattgttaa 300
 tgaaattttt cgttcgggtt tgtttctgat gtaaccgttg tactgagtag accttcggga 360
 taccggattc tgagtaaacc ttg 384

<210> 14145
 <211> 326
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-B5

<400> 14145
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 tctatttttag tggatgaaac atctgtgcaa aagattcagg cactaacacc taatattgga 120
 gttgtctata gtgggatggg tccagatttc cgtgttctgg tgagaaaaag tcgaaagcag 180
 gcacaacaat attatcgggt gtacaaggaa catatacctg taacacagct tgtacgagag 240
 actgctgctg tcatgcagga gttcacacag tcacgtgggt tgaaaccatt tggagtatca 300
 ctgttgattg ctgggtatga tgacaa 326

<210> 14146
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-B7

<400> 14146
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 cctgggcacc cgctggcgga acccggcgcc acagaacggg cgcacgtgtg cccggttcgg 120
 gttcgggttg ggcggaagg cgaagcctgc tccgaagaag gtggcgaaga catcgacctc 180
 ctctgaccgg ccgctgtggt tccccggcgc cgtggcgccc gactacctgg acggctcgct 240
 ggtcggcgac tacgggttcg acccggttcg tctcgggaag cccgtggagt acctgcagtt 300

cgagttggac tcgctggacc agaacctggc caagaatgag gccggcggca tcatcggcac 360
ccggttcgag tcctccgaag tcaagtcac cccgttcgag cccta 405

<210> 14147
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-B8

<400> 14147

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ccgccgccac cagcagcgtc aagaccacgg tcctcgccgc gccgaccac aaggccagcg 180
ccggcgggctt cgaggcggcc accgagggcg gcggtgcga ctgcaacacc tgcaagtgcg 240
gcaccagctg cggctgctcc tgctgcagct gcaactgagc tggcccggcc cggcgatggc 300
gcacgagagt cgagaggagg aggacgacga cgaggcgtat aaatataata gcggcgcca 360
gtaaataaga tcctgtcaac tgcacccgcc attatccatg gtcgctcgct cctcgctgc 420
gtctcctggg cctgggggtcc gtctgaacgt cctc 454

<210> 14148
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-C10

<400> 14148

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agagatctac caaagcatag cctccttcct gctgacggga tcgccgtttg ggtcgcagct 120
tatcacataa taggaggtcg cacaacacct tggcaaatga ttaagtctca gcagctgcag 180
ctacggattc acgatatgat gagtctgaaa gggatatcat tcatcagcag caaggtgata 240
atgcatgaat ccactgcagt cgcgtcatca tcatcatcac ctgcacgtgc ggctacaggc 300
cagcatgttg ctgcccacg tagtcccagc aagattgcgg cgtcctcgtg gactcattac 360
cgccgtctgc actgacagac gacgaatacg cctcagatgg ccgtgagtc gaatcttcga 420

<210> 14149

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-C11

<400> 14149

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 ttgataagta tgggccggac aagaaaaagg ttaatgttta cccatatgag aacgatcctg 120
 aaaacccaaa cagttacaga gcaaggaata gagagtactt ccgcatgcgg cgtgaacagc 180
 acaaggcgag agcggaaggc gccgctgagc ctcagttggt atcacctgct gttgatgaaa 240
 actctgaggt cagcgtgac tgctgataag tttcctgtgt ggtgtttctc tttttcacag 300
 cccttgttac actttttcat ccttaattgt aagatcatat gatctatcaa ggtcatactt 360
 acatctgttg tttacatcaa tggatatgtt c 391

<210> 14150

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-C12

<400> 14150

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 gtccgtcacc gcccgcgccc cggtcgcggc cctgcgcccg tcggcgctctc tcaagtcgtc 120
 gtcgtcgctg gcggcggcct tccttgcca ctctagccgc ctggcgcgca ctgctaccgc 180
 gtcgcccagc aggcgcagcc taaaggcgga ggccaagggc gagtggctcc cgggccttcc 240
 ctccccctgcc tacctcgacg gcagcctgcc gggtgacaat ggcttcgacc cgttgggcct 300
 ggcgaggagc ccggagaacc tgaggtggta cgtgcaggcg gagctggtga acgggcggtg 360
 ggcgatgctg ggcgtggccg ggatgctgat cccggaggtg ctgaccaagg ccgggctgat 420
 caacgcgccc cagtggtagc a 441

<210> 14151

<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-C3

<400> 14151

tccgcggacg caagtgttac cacagggtca ttcagctaga cgcagatcag acagacatga 60
aaagtagaaa gaattttgat caaatcaata gaacgaagga tcccttacct gatttgaatt 120
tcacctcctt ttaaatatga tatgctctaa gtcttcccat acattcctat aatgactgct 180
acgatittct ccattttgcg aattcctagt ttacttgaag tatattacta tcatattcat 240
tatctaaatc gatccacttt aaataaaata aaagcaatct acttgaacta aggtagaaag 300
agtacatata caacaagata ttctgtttca gaattct 337

<210> 14152
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-C5

<400> 14152

gtaacgtgta ccctccgtgg caagaggctg gacgggtggtg tatctgtgct ctcggttggc 60
gtgaacctga tctggtctta agaaccccggtg ggcgaggtg acatatgcaa gggttaagt 120
ctacatatgt cgtgtgattg aagatcctca gctgagtata atcgattcgg atcgccgtac 180
cttcgtggtt atgaatactt ggctactgcc ctacacgtag caatccagtg aagatgaag 240
gatgatgaaa agacggctag tataggccaa gtgcttgaac tagggtagaa agaactctag 300
atgcaggtaa ctttacttaa cctgataagt aaaattggat tttaaggatc cactcatagt 360

<210> 14153
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-C6

<400> 14153

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gtttcgtggg tgggcggatc gagatggcgg cgtcggatgt tgagtaccgc tgcttcgctc 120
gcggcctcgc ctgggccacg gacgaccaca cctccacaa cgccttcagc acctacggcg 180
aggtcctcga atccaagatc atcctcgatc gggagacgca taggtcacgc ggcttcgggt 240
tcgtcacctt ctccacggag gatgcgatgc ggaacgccat cgagggcatg aacagcacgg 300
agctggactg ccgcaacatc accgtcaacg atgccagtc ccgcgggggc 350

<210> 14154

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-D10

<400> 14154

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atgtcttgca actgcggatc aagctgcggc tgcgggtcaa gctgcaagtg cggcaagaag 120
taccctgacc tggaggagac gagcaccgcc ggcgaggcca ccgtcgtcct cggcgtggcc 180
ccggagaaga aggccgcgcc cgagttcgtc gaggccgcgg cgaggtccgg cgaggccgcc 240
cacggctgca gctgcggtgg caactgcaag tgcgaccctt gcaactgctg atcacatcga 300
tcgacgacca tggatatgat tattatctat ctagcttggtg gtggtggttg aacaataata 360
agcgacgccg agctggctgc catacatcag tattgtgtgg tgtgtgtgag agagagagaa 420
acagagttct tcagtttgct at 442

<210> 14155

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-010-Q1-E1-D11

<400> 14155

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cgagatggct acaacagctt acgctcccat ggcgagccag gtgatgaaga gcagcccggc 120
gcaactcgagg ccgagggggc tgtcaggcgc tgcgctcaag cggccccggc ccgggttcag 180
cgtcgtcaag gccgccatcc agcccagaaa ggcaacgtac cagggtggtgc agcccatcaa 240

cggcgacccg ttcacgcca gacctggagac gcccgtcacc tccagcgcg tcatcgctg 300
 gtacctctcc aacctgccg cctaccgcac cggcgtagc ccgctgctgc gggcgctcga 360
 ggtcggcctc gncacggct acctcctcgt cggggccttc gcgctcaacg gcccgctccg 420
 caaca 425

<210> 14156

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-D12

<400> 14156

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 cggggaggca acagccacgt taccgtcccg gctgagcaat gcgcgccaac agcaggccag 120
 cgcacgccag gctcaaggag catcgatcgt ctcgttctct catcacgctc ccgggcacca 180
 ttgaccaatg accgtcagtg gacatgcgag ctcatcaacc agatacttcc cacaccattg 240
 aaggacaatc agcgcgctcat cgaatgatct cctcggtgtg tcatcccgca tagccccaga 300
 gcggtgagcg acatctccat ccagatcctc gacggcctcc tgcacggatc ctctgtcgcc 360
 aaacactaag ctgccggcct gctgttgag ctgcagctgc tcaacaagac ca 412

<210> 14157

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-D4

<400> 14157

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 cggacctcc acaacaatgg ccacgtcct gggcagcccc cgcgcgccg ccttcttctt 120
 ttctgtctcc tccctccgag ccgcgcggc gcctaccgcc gtggcgctgc ctgcggccaa 180
 ggtgggcac atggggccgta gcgccagcag caggcgaggt ctgcgcgcgc aggccaccta 240
 caacgtgaag ctgatcacgc cggaggggga tgtggagctg cagggtgccc acgacgtgta 300
 catcctggac caggccgagg aggacggcat cgacctgcc tactcctgcc gcgcggggtc 360

ctgtctctcc tgcgccggca aggtcgtctc cggctccgtg gaccagtccg accagagcta 420
cctcgacga 429

<210> 14158
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-D6

<400> 14158

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gttctccggg gttcggtttc gtgggtgggc ggatcgagat ggcggcgtcg gatgttgagt 120
accgctgctt cgtcagcggc ctgcctgag ccacggacga ccactccctc cacaacgcct 180
tcagcaccta cggcgacgtc ctcgagtcca agatcctcct cgatcgggag acgcagaggt 240
cacgcggctt cggcttcgtc accttctcca cggaagaggc gatgcggaac gctatcgacg 300
gcatgaactg caaagagctg gactgccgca acatcacctg caacgatgcc cattcccgcg 360
gaggccgtgg aggcggctgc tgaggctacg gtgggtggccg tggaggcggc ggctacggcg 420
gtggcggggc cgtgatggc ggcgg 445

<210> 14159
<211> 290
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-D7

<400> 14159

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ctagcagcgg cggatcatgag cggcggggcg gagagagca ccatcagcat gtggtcagag 120
ctggccgccc tgcgcgcgtt ggtgcgcgac gcggcggccc gggccgggag ggagacggcg 180
gggtggcgcg ggcgggagtg atacgaccac cgccacgtgc tgtgcctgag cgcaatggcg 240
atccagctgc tgatctgcgt aaccagctaa tttgcagtca actactgctg 290

<210> 14160
<211> 342

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-010-Q1-E1-D8

 <400> 14160

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 agctagctga cgaccatggc gtccctctcc tctgccgcca tcaccgcccc ttccttcacg 120
 gccgcgcccc ctgcgcgagt ggtcagcagg aggtccttca cctgcgtgc ctctctccgc 180
 aaggccactg ccaccgccc cgtggccggt gccgcagcg tcttgcttgc cggcggcggc 240
 gccatggccc aggaggtgct gctgggcgca tgcgacggcc ggctcgtctt cgagcccagc 300
 cagttcagcg tcaaggccgg cgacaccatc accttcaaga ac 342

<210> 14161
 <211> 333
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-010-Q1-E1-E1

 <400> 14161

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 ttcgccgcac gaggccaac ccgcgacgtg gtcactagga ggtccttcaa cgtgcgcgcc 120
 tctctccgca aggacaacgg caacgtcgcc atagcaatcg ctgctaccgc cgctggtgcc 180
 ggacgtgcc tggcccacca ggtgcagatg gccgcagtgt acggccgggt cgtcttcgag 240
 cccagccact tcaacgtcaa ggccggcgac accatcacat tcaagaacaa cgccagcttc 300
 tcgcacaacg tcgtcttcga ctaagacgat gtg 333

<210> 14162
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-010-Q1-E1-E10

 <400> 14162

 gctagctcct gcgtgagcta gtagctagt ccatgcgtcg tctctgtcgt tcggttttgc 60
 ttcgggtcac cgtgtaccct ttgcttgctt ggtttcttct ttcctttttt cctttttttt 120

tcttcttttc cccggccatg gttcctttgc tttccagcag ttctctgctg gatgtgatgt 180
atccattggt gcaatcatgg ccttgcatg gctacctcta tacctgctac aaaactactg 240
caacgcctat atatacttgg ggtgaggaac atgtgaatgc aagctccggc tatcatatac 300
atgtaatatg gatacaaaact atatatataa atccgccgag gcgccgacaa tactaaaaaa 360
taaaaataaa tctcaaaacc ctaattaaca atacaaaaaa gaactagatt 410

<210> 14163

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-E11

<400> 14163

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gggcaagccg gtgaaggggc ttggcctgag catgggccgc gagcgcgccc agcggagcat 120
tgtgtgccag gcggcgagca gcatctccgc cgaccgcgtc cccgacatgg agaagcggaa 180
gctgatgaac ctctctctcc tcggcgccat ctcggtgccc accgtcggca tggctcgtccc 240
ctacggcgcc ttcttcgtcc ctgccggctc cgggaacgcc ggcgggcgga cctacgcgaa 300
ggacaagctg ggcaacgaca tcacggtgga ggcggtggctc aacacgcacg gtcccaacga 360
ccgcacgctc gcgcaggggc tcaaggggtga cccacgtac ctgggtggtgg agcaggacaa 420
gacgtggccc acct 434

<210> 14164

<211> 125

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-E12

<400> 14164

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tccgatcatg tacattgtaa aacttgatgt aacttgtaaa aatttagtaa taagatttct 120
gctgc 125

<210> 14165
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-E3

<400> 14165

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accagctagg atcagcggaa gcagcaatgg tgatggcgtc gtcgagcggg ctgaggagct 120
gcagcgccgt gggcgtgccc agcctgctgg ctccgctcgtc ccggtccggc cgcttggcgc 180
cgttctgcgc caacgccacc acctctggcc gcgtcaccat gtccgcggag tggatgcccg 240
gccagccacg ccctgcccac ctcgacgggt cctctcccgg ggacttcggc ttcgattcgc 300
tgggcctcgc gaacgttccg gagaacttcg accggtttca ggagtcagag gtgtaccact 360
ggcgctgggc catgcttgcc gtcccgggaa tctgtggcgg agctctgggc tgcgcaactg 420
ggtaaggcca ggattggcgg cgtcccgc 447

<210> 14166
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-E4

<400> 14166

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cagcaccttc ctccgccgcc gtccgtaatc ctcaagcctc tgccctcgtgg cgcacgaat 120
ggctgcagca cgggcaggcc cgacgtgctt gcctggactt ggctgagcgc gtgtctgcag 180
ctggcgctgg ggcatgtgtg cggagcggcg cgtgcggcag accaggaata cgtgagcgat 240
acgaacgaag tgatatggaa cgtgcggtcg acgatcaatc tggacaagtc ggaccctagc 300
gtggcagacg ctgtggcgga gctccgggag ctgtccaact cgtgggtggc caagtaccgg 360
caggataaat cgctgctggg gcggccgctc ttccgggaca tgtactcagc gctcagcgcc 420
gtgtctggcc attacatca 439

<210> 14167
<211> 431

<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB36-010-Q1-E1-E5

<400> 14167

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tgaagagcgt gaccatgaac tccctgattt tccatcattt attccgttct tgcctcctct 120
gagtgcagct aatctaaagg tctactatgc cacatgtttc accctcatag ctgggataat 180
ggtgttttgt ggttttcttg caccaatcct ggaacttaaa cttggtgtan ggggcacgtc 240
ttatgaagac ttcattccga gcgttcattt gccgatgcag ttgagccagg tagatcccat 300
tgtggcatct ttctcaggcg gagcagttgg agttatctct gccctaattg ttgttgagat 360
anacactgtc aagcagcaag agcttaagcg gtgcaaatac tgtttaggaa cggataacctg 420
catgtgccccg c 431

<210> 14168
<211> 448
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB36-010-Q1-E1-E6

<400> 14168

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gtcagtggaa gttgaacagg ggttgcgctc attggattgg ataacgaggc tcaagattgc 120
aataggtgtg gctgaggcct tgtgcttcct tcatgacgaa tgcaatcctc cgttggtcca 180
cagagatatc caagccagca gtgtgcttct tgaggacaaa tttgaagtgt gccttgggag 240
tctgagtga atagtcactc aacaaagtgc aggaagccaa agtttcttct ctcggtattct 300
aagatcatcg aagttccttg acaagaacat accagggtcca ccagctagct gctcatacga 360
catttactgt ttcgggaagg ttctactana gctaatactt ggaaacttcg gtgcgagtgg 420
ctcaaacaac gcagattcag aagagtgg 448

<210> 14169
<211> 236

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB36-010-Q1-E1-E8

<400> 14169

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 aaccgggagc tggaggtgat cactccccgc tgggccatgc tgggcgcgtc cggctgcgtc 120
 ttccccggagc tgctcgcccc caacggcgctc aagttcggcg aggccgtgtg gttcaaggcc 180
 ggctcccaga tcntcagcga ggggtggactg gactacctcg ggaacccgag cctcat 236

<210> 14170
 <211> 433
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-010-Q1-E1-E9

<400> 14170

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 acagcaggtg cgtcgacgcc gcgaagctcg ccggcttcgc gctcgccatc tcggtgctcc 120
 tcggctcggg cgcgagcgcg gcgggcacgc acaagatgct gacctacgac gagatccaga 180
 gcaaaacgta catggaggtg aagggcacgg gcacggcgaa ccagtgcccg accatcgacg 240
 gtggcgtggc gtcgttcccc ttcaatgccg gcaagtacca gatgatgaag ctgtgcctgc 300
 agccgaggtc cttcaccgtc aatgcggagg gcatcgccaa gaacgcaccg cccgagttcc 360
 agaagagcaa gtcatgaga cgccgcacgt acacgttggg cgagatcgag ggcccgtcgc 420
 atgtctgctc cga 433

<210> 14171
 <211> 259
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-010-Q1-E1-F11

<400> 14171

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ctgccgccgc cgccgccagt tgtttgcgtg ggaaagctag atgcatgcgt gttgtaaagg 120
aacctgaagc gttgcatcgg tcatgattca tgcattggcca gcctgctgcc tgtaacaaca 180
aactagtatt gatcttattg agaccggaaa ctgtattgca catggtaaata caatgtacaa 240
ttcctcccta gatgcggac 259

<210> 14172

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-F12

<400> 14172

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ccaacaggag cgacgcgcac ctctccgccg aggacgaggc ggcgctggag gccgaggtgc 120
gggagtacta cgacgacgcg gcgccaaagc gccacaccaa gccctccgc agcgagcact 180
ccgccgcgta cgtcgacgcg ctctccgccg acgtcggcgg caactcccac ccggagctgg 240
acaagttcca agagctggaa gccacacccg agaggttggt gtacgagggc gccaatgtgg 300
gagatgagtt cgtggagacg gactactaca aggacctcgg cggcgtcggc gagcagcacc 360
acacgaccgg aacgggcttc atcaagatgg acaaagctaa aggcgcccc ttcaaactgt 420
ctgaagattc caatg 435

<210> 14173

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-F2

<400> 14173

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tacgccaaagc tccatgagct gttggccctc gaatagcttg cgcacatgct gactgcgaac 120
ccatacgtga tccaggagta tcactcacgc aacggagttc ccttccagca ggtcatttgg 180
atcctcgaca gggccctgat aatcaacctg cgtggcatga actacctcgg aacatcatac 240
ctcatacaag gcaaactgtc cgctacaac ttgccatgtt aggtatcgca catcatgcc 299

<210> 14174
 <211> 365
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB36-010-Q1-E1-F3

<400> 14174

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 ctctccgccg attggaggca cctgcgaaga tgccgcagcg gcactcaaag aacaacaacg 120
 acctcgctt cttcacgtac gaggagaagc ggaagctcgg gtacggcacg cagcgggagc 180
 gcctgnggaa ggactccatc aagcccttcg acgcctgctg cctctgcctc aagccgctca 240
 tcgacccgct ctgctgcccc aagggccata ccttctgcaa ggagtgcac cttgagtgcc 300
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 aagag 365

<210> 14175
 <211> 448
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-010-Q1-E1-F4

<400> 14175

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 gtccgtcgtc aaggacctca tgatccagca ggtcgccgtc aagatggcca gccgcgtgta 180
 caagcaggac cagctcagcg ccgcgtctta cagccgcctc gcggagcccg ggtctgccat 240
 gggcacgtaa tcaatgagga gagctgctca gctcgcttgt ggctgccgga ataggcactg 300
 atactactgc tactcaccag cggactgtcc tgcgtcgtg gtcaccacgg ttacaacacg 360
 ataggcagaa agactcacga gggatggaga cgacgacgat gccggtgctg tataaacttt 420
 agaatgaacg atggatggat gatgatac 448

<210> 14176
 <211> 357

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-010-Q1-E1-F5
 <400> 14176
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 ggggctcaac aaggtgacca tgctcgggggt gcgcaagacc gccgactact ccttcgccaa 120
 ggtcgtggcg tcgtcagcc ccgcgggcag gaagcggcgc ggcggggcgt tcggcgccca 180
 gatgaacgcc gccgccgaga tcttcaggat cgcgccacc atgagcggcc tcgtgctcgt 240
 cggcgctgcc gtcggcttcg tgctgctccg ggtggaggcc gccgtcgagg aggccgagta 300
 gggcgctcgc gcctgcttca taagccgtga tataatatata aaaacgtgat gtatgct 357

<210> 14177
 <211> 399
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-010-Q1-E1-F6
 <400> 14177
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 acctcaagga atgtatccat cttctgattg gagtgggtat catcaggtac ctttgaatcc 120
 atattaccct ccggtgttc ctttcccgca tttccagct gcccatatga atcaccgat 180
 gtacaaggct gcagatatac caggacatca accaccacca tctgatgagt atcccagagag 240
 acctggccaa cctgaatgcc agcatttcgt taagagcggc ttctgtaaata acaggatgaa 300
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 catcggttg cctatcagac ctgatcaacc tgtgtgcac 399

<210> 14178
 <211> 443
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-010-Q1-E1-F7
 <400> 14178
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gcccggcacct atagaaggat tacatgtccc ggcaccaaag gatgaggatg atgacagctc 120
aacagaagaa tggggtaatt acagggatgg tgtctctcgg attgactttg atgagtttgg 180
tagtatggat gccaccaaaa ctgagaaggg ttccagcata cagttttcgt gatgaacaaa 240
gacgtagacg tacggatcat gcgtgccatg ttcacactaa gatcatatca tggatatttat 300
ctacatggga tttgaattgc tgtcaaaata aacgaccatc cttaagcaat aaaagattgt 360
gcatggttcc tttgggttaa caatTTTTTT aagttccaat ggaacttggg gatccttggg 420
acggcagacc catttttttc cct 443

<210> 14179

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-F8

<400> 14179

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catgaaccag gggcccaacc cgtggcacgt gtccttctcc tacgcgcggg cgctgcagaa 120
cacctgcctc aagacctggg gcggccagcc ggacaaggtc aaggcggcgc aggacgcgct 180
gctgctgcgc gccaaaggcca actccctggc gcagctcggc aagtacacct ccgacggcga 240
agccgccgag gccaaaggag gaatgttcgt caagaactac agctactaat taatcgcccc 300
gccatcaccg gggataccgc cgcgcctccg agagatacgt gtgtactgat catgggtaag 360
cacgtactcc gatccattcg catcccatga agccatgata atgatgatat gatccatgga 420
ccatgcatgg tgctc 435

<210> 14180

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-F9

<400> 14180

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cctctctcgc gcatccgatc gcaaggaaga agaggagat gagctactac gggcagcagc 120

cccccgtcgg cgtccccgcc cagcaaggct acccgggcaa ggacggctac ccgccagcgg 180
 ggtacccgcc ggccggctac cccccgccgg cgcagggcta ccctccgcag ggctacccgc 240
 cgcagtacgc gcagccgccg cctccacagc agcagcagag cagcgggcct tccttcatgg 300
 agggatgctt ggctgccctc tgctgctgct gcctcctgga cgctgcttc tgagagtgag 360
 agggggccgac cgacggattc gacacggcga caagtgaac tactagcttt ctatgcgagg 420
 gagagagaga gagagctgga actggg 446

<210> 14181

<211> 450

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-010-Q1-E1-G10

<400> 14181

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 cgcccgccgc ggaggccaag gacagggcca ccccgagca ggtggccgcg tacaccctca 120
 agtcctcca ccgccgatc cccccctccg tgcccgggat catgttctc tccggcgggc 180
 agtcggaggt ggaggcgacg cagaacctca acgccatgaa ccagggggcc aaccctggc 240
 acgtgtcctt ctctacgcg cggcgctgc agaacacctg cctcaagacc tggggcggcc 300
 agccggacaa ggtcaaggcg gcgcaggacg cgctgctgct gcgcgccaag gccaactccc 360
 tggcgagct cggcaagtac acctccgacg gcgaagccgc cgaggccaag ganggaatgt 420
 tcgtcaagaa ctacagctac taattaatcg 450

<210> 14182

<211> 142

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-G11

<400> 14182

agcgaacgac taggcgcgca catagacaag aacctcggcg ctgacatgac tgatgacatg 60
 gtgtccaggt cccacctctc ccacgacatc ctgcgcaaca agcgtgccta cagcagggcc 120

gaagcagccg tgtaccgtgt ca

142

<210> 14183

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-G2

<400> 14183

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gccgccacac tcccgcgcga ggccctcgag gcccacatcg tctcgctggt ccgcagatgc 120

ccgggcttcc tcgcgtccg cagcgcgac ggcacctca cgcggctccg cttgccgcgc 180

ctcaccgcgc ctttcgcgt ctcgaagctc ctgcctcct gcgtctcggc gcccgcaaca 240

gccgcagccc aagccgcggg gtcctcctac gcccgcaacc tggtcggaca aatccccgaa 300

cccgcgcct tctgctacaa ctccctcat 329

<210> 14184

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-G3

<400> 14184

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ccggcgtgcg ccacgtgggc ggggacatgt tcgcgtccgt gcccgccggc gacgccatcc 120

tcatgaagtg gatcctccac gactggagcg acgcgcactg cgcacgctg ctcaagaact 180

gctacgacgc gctgccggaa aatggcaagg tcatcgctgt cgagtgcgtg ctgccggta 240

acacggaggc ccccccaag gcgcagggcg tgttcacgt cgacatgac atgctcgcgc 300

acaacccaag cggcaaggag ccgtacgag 329

<210> 14185

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-G5

<400> 14185

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caggaagggtc tgcgccacgc gcagctcccc gtgctgctcc agtgaggaa cgcgccacagc 120
cagcacgcca ggctcctcct ccagctcctg ttcgagatgg tggtaggctcc atgtttggag 180
gaattgggtc caccattgct caaggatgg cgtttggcac gggtagtgcc atggcacaca 240
gggctgttga tgctgtatta cgtccccgga ccattcagca tgagactgtt gcctcagaag 300
ctgctgctgc tgcccctgcc cctccattga tgaatgcgga tgcttgacgc atccattcta 360
aggctttcca agattgtctc aacaactatg gcagcgagat cagcaattgc catttcaacc 420
tagacatgc 429

<210> 14186

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-G7

<400> 14186

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gcgaacgatg gataacggga tggccgggat cggaccgatc aggcacgact gggagccggt 120
cgttgtgcgg aagaaggcac ccaccgccgc cgccatcaac gatgacaacg ccgtcaacgc 180
cgcgcgccgc gccggtgcgg agatcgatac catgaagaag tacaacgctg gtacgaacaa 240
cgcggcatcc atcggtacat cgctcagaca caagcgctc gacgacgaca ccgaaaacct 300
cgcgcgatgag ctacttccaa gtgatctgaa taataatctc atgcaagcaa agctcgataa 360
gaagctgaca catgcacaa 379

<210> 14187

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-G9

<400> 14187

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ggtcaagtct ctcaaattcg tcaccaacaa acgcgcttac ggaccgtacg gcagggacga 120
 gggcaccccg ttccgtgtca aggtgatgaa caacggccac gtcgctggct tctttggccg 180
 ctctggagat tgcctggacg cgatcgggct ctacgtgaac cccaactaat aactaaaacg 240
 atggatcgga tcatctgcat gcatgcatat gcagtatgca tgctgcttgc ctgcctgtaa 300
 cgaatatgaa tgcataaaat aacgcccctg ctgctcccat gcatcagcag tgtgtaccac 360
 tatgttatat atatatatac tgtatttcgc taaaaaaaaa gaa 403

<210> 14188
 <211> 388
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB36-010-Q1-E1-H1

<400> 14188

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 ccacagtttc tcgaccaatg aaaacaccct cacctttggc gggcagcaca ctctggaccc 180
 actaaccgtc ttgaaggcac gcatcaacaa ctctggcaaa gccagcgccc tgatccagca 240
 tgagtggagg ccaaagtcgc tggtcacat ctcggctgag gtcgatacaa agaccattga 300
 gaagagctcg aaggtcggaa ttgctgtggc cctcaagccc tgattgatta tcangactat 360
 tttttcttct aaggtcctag catgactg 388

<210> 14189
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-H10

<400> 14189

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 ctcgccacat ccatgctcgt cgttcctgtg ctgctgcttc cttgtccctc cgccgctcgg 120
 gcttcctggg gcgcgtcgtg ctggccgcgg tgccagtggc cgtggacgcc acccggcgcc 180
 gccgcgtctc cgtgtcgggt cggtatggcct gggacgggtc gctctcgtct gtgcgcctca 240

tcatgcacag caggaacgcg aagctgagcg agaagctcaa ggatcacatc gaggacaacg 300
 tgggtcgggc ggtgtccaag cactgccacc tgggtccggga tgtagacgtg cgctctccg 360
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<210> 14190

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-H11

<400> 14190

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 cgtccgtcaa ggtaaaagga cagcatggtg agggtcagcg tgctcaatga tgctctcaag 120
 tccatgtaca atgctgaaaa gatacggaaa cgtcagggtca tgatcaggcc gtcattccaaa 180
 gtgatcatca agttcctgac ggtcatgcag cgccatgggt acattggcga gttcgagtac 240
 gtggatgacc acagagctgg gaagatcgtg gtggagctga atggaagact gaataaatgt 300
 ggtgttatta gccacgttt tgatgtaggt gttaaggaga tcgatggatg gacagcgaag 360
 cttcttccat ctgcgcagtt tggctacatc gtcctaacaa cttctgctgg aattatggac 420
 catgaggatg cccgccgtaa g 441

<210> 14191

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-H12

<400> 14191

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 aggattgccc tgggacgcac gagttcctcc tctctgacga aggtaaatgg cagcatgtga 180
 aggacaccac gaccattggg gaagggaaga tgttctctcc tgggaatctg acggcgacat 240
 tcgataacct tgagtacgac aagctcatca actactacgt caaggagaag tacacattgc 300
 gctacactgg tggaatgggt cccgatgtca accagatcat actgaatgat aatggcatct 360

tcaccaacgt gacgtccccg acggccaagg ctaagctgcg gctcctcttc gaggtggcgc 420
ccctg 425

<210> 14192

<211> 504

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-010-Q1-E1-H2

<400> 14192

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cganggggtga gtgaggggtg actaagcaca ccatcgatcat ggacggcgga tactacggcg 120
gtcgcgatca gcgctacagc ggcgggtact acggcgggcg tggcatcgca acgcccgggt 180
acgctccggc ggtcccgtag gggatgtcgc aggtgaacat cgacggcaac ggggtcgggc 240
gggcgctgcc gccgcagccg accgtgaacg tgtactgccg cgccaacccc aactacgcca 300
tgagcgtccg cgacgggaat gtggtgctgg cgccggcgaa cccacggac gaggaccagc 360
actggatcaa cgacatgcgg tggagcacga tcatcaagga ccaggaaggt taccggcggt 420
tcgcgctggt gaacaaggcg accggggagg ccatcacgca ctgcgtgggg cagtcccaca 480
cgggtgcgct ggtgccctac aacc 504

<210> 14193

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-H3

<400> 14193

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gattccaaat gggaatcccc gtgtggcttg ctggaacagc ggcgcgccga gtcggccaga 120
tccatgtccg atttctccac cgcgctgcgc gccgatgtgg aggctcacct gacggctgcc 180
gacagcgaga ccgactcgaa gttgctccag atcgacgcag ctgccaaactc tcggatggcg 240
gcgctggagt catccatgcg ctccgtcgag acttggcgcc cgcgcgtgga ctcgacgctc 300

gacgccttac gctcgtctct ggactccgtc gctaccgagg tgtcgaaaat ggagattcag 360
 tgggtccccgg gacggacgcg ccgatggctt acacaagccg gggcgtgctc ggggcacctg 420
 gatcgggtgcc ggga 434

<210> 14194

<211> 491

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-H4

<400> 14194

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 ccagccgacg ctgtccaagg agttcgccga cgagaacaag cccgccggac tggtaagct 180
 gaacccggcg agcgagtacc cggccggcct ggaagacacg ctcatcctca ccatgaaggg 240
 catcgccgcc ggcattgcaga aactggcta tgcggcttct cttcactcac ctgcagagtg 300
 catcgcaata atcaacttcc ggatgggtggc gttttgtcag ttttgatgg caatgccgaa 360
 ctggcagcgt ctgttttccc tatgcagatg taatttctct cctcattata atcacgcctg 420
 ttgtcaagtc caagtggaaa atcttggcat attatacata gtgtaataat caacatccta 480
 caatctgcat g 491

<210> 14195

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-H5

<400> 14195

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 agagcagtag catggaacac gccaaatacg ccattctctg gtctgcatac tttccgctca 180
 gctatgctgt gaactaccca tctggatttg ctctctcct gtggaaaacg ttggagttga 240
 atgaaacaag gaacagcaac acggtcgcat gccggatgta gcatacaact cattacaaaa 300

gatagcaaga tacgataaac ccttccaaat gaatgaaaga cgaatcagtt tacgaatcat 360
 ctgcacagca tgtctgaaac tgaaacgaac aagcataact caaccaccag ccat 414

<210> 14196
 <211> 371
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-H6

<400> 14196

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 ctctggccac ctgtcgtcac actcggcatg atccttggat ccttgcttca attatcactt 180
 cttcatctgc tagatggcta tgcagtgc atgcagatagtg atcgagaagc tgttcttcat 240
 cgccatggat atgttaagcc tgaagttatc aactggacgc cagggataat tgttttccat 300
 gattttctta attcataggt gtgtgactac ctaatggcaa ttgccatacc agaactcgaa 360
 agttccactg t 371

<210> 14197
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-H7

<400> 14197

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 caacttcgtt ccaggatcc cgctcgccga tggcaagaac tacgagccac acagggtgctg 180
 ggaggatatc tttgatgcca taagcaaggc ccagcatctg atttacatca ctggctggtc 240
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 tactcttggg gagttgctca agaggaaggc cagcgaaggt gtccgtgtcc ttatgctagt 360
 gtgggatgat aggacttcgg tcggcttgct taagaaggat ggcttgatgg ctacccatga 420
 tgaggagact 430

<210> 14198
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-H8

<400> 14198

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ggaaaggggt cgtactcatg gcgccgccgc agccaaagtc gggcctcttc gttggcatca 120
acaaggggtca tgtcgtcacc aagcgcgagc tgccctccccg cccgtgccac cgcaagggga 180
aatcaacgaa gaggggtgtct atgggtcaggg gcttgatcag agaggttgct gggtttgctc 240
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ttgctaagag aaagcttga actcacaaga gggcaaagaa gaagagagag gagatggcgg 360
gcgtcctcag gaagatgagg tcggctggta cgcacactga caaaaagaaa tagagagcat 420
ttcaagttca tggagctggc tgccagagat tatg 454

<210> 14199
<211> 59
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-011-Q1-E1-A12

<400> 14199

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<210> 14200
<211> 53
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-011-Q1-E1-A9

<400> 14200

tcaccacacc ctgacgtgag tcgtattaaa tgctgccaca ctcgattttc agt 53

<210> 14201
<211> 310
<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q1-E1-H9

<400> 14201

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cgccgccatc atgcggggagg gcccacacct cttgaagctg gcgcgcaagg agcagtgcct 180
ggcgcctcggc accaggttgc gctccaagta caagatcacc taccagttct accgcgtctt 240
ccccaacggc gaagtgcagt acctccaccc catggacggc gtcctaccgg acgaaggcca 300
accccggcag 310

<210> 14202

<211> 472

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-A1

<400> 14202

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gaatgcccga tcgcctacgc atcccttgct tctgccggag gtactgcacc acctcggttg 120
ctatcttccc cgtcctacgc ttctccttag tctaggagtt tgccgcacat ggcaccgtgc 180
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tcgccaggcg actcccacgg tgcttctcag gaataagcac catatcaggc acctccatga 300
gatcggtctc aactctctgc taaagttcct agccttctca accgcaagct tgccgatgca 360
actgactagc atccatgtgt ccattgctcag cctgaaatc ctgattgtcg ctcagcagag 420
tgtggagacc cttgttacgt tcagctggcg cgccaaaccg gcacccaaaag ga 472

<210> 14203

<211> 457

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-011-Q2-E2-A10

<400> 14203

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attgtcctgt acttcccgac ctgcttctgg cccgaggaca agcacttcat caacttttta 180
cccatacca acagtatacc caatcctaaa ctctgtcgcc acctcaacag gcgacagatg 240
gcggccttga aaacatacat gaatgatctc gccaaactata cgtcgctcat gccatccac 300
ggggcaccca ttctgattgc atacgcagcc aacgactcgg ccgaggtatt tggaaagttg 360
acggaccagg aggctatgga ggtacttgtt tgccagctgt cgcattattt tgacgtcctt 420
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<210> 14204

<211> 474

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-A11

<400> 14204

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tatttcctgt aaagcgttta atcgcccgcc atgtcgaccc cctctcgccg ccgtctgatg 240
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gataatatca tgctgtggaa tgcagtcac tttgggtccag gtgatacgcc ctttgaagac 360
ggcacattca agttgctgct ccagtttgac gagacgtacc ctaacaaacc accgacggtc 420
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<210> 14205

<211> 466

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-A12

<400> 14205

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agatcgagct ctctgttgct caggtctctt tcgatttggc gaacaacgtc gctgacttga 120
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 agaaggccat tgtcatcttc gtccccgttc cccagctgaa ggccttcac aagatccagc 240
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 agcgtcgcag catggctaag cccatccgca cctcccgtgc caagcagatg cgtctccgct 360
 cccgcaccct cacctcgggt caccgagaagc ttttgaggga cttggtctaa cccaccgaga 420
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<210> 14206

<211> 477

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-A2

<400> 14206

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 accgcttttg cacacaaacg caaactca cagtcagcac acacacacgc acaaagaggc 180
 aacgtcttag cggctcggta ccaatgtacg ttatcgtgcg accgtctagg tcctatgggc 240
 ccattcagaa cgccatcgca gtcctcaatc tgctctcctt gctcgtggga atgattttgc 300
 tctgcgtcgg caggtttgtc tactttgcac ccggcgcagt ctttgtgacc tcaacgcttt 360
 taccacactt ggtccttgtc ctcggcgcca caatctcaat ggtccccctt ttgggggtact 420
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<210> 14207

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-A3

<400> 14207

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gacaacaaac catggctgct gctcccagtg tgaggacgtt tactcgggcc gaggttttga 180
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acaacaaggt gtacgatgtc cgcgagttcg tcgctgatca tcccgggtga agtgtgattc 300
tcacgcacgt tggcaaggac gggactgacg tctttgacac ttttcacccc gacgctgctt 360
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<210> 14208

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-A7

<400> 14208

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cgggtccgctc cccctcgcac ccaagccaaa tccaatacgc gtccaaaaag cagcagcaag 180
ctgtcgccga gattgttgag cagctgacag ttgatgcgtc gacgctgaag gggatcaagg 240
accactttat tcaatagatg agaaagggcc ttgccaagga tggcgagacc atagccatgg 300
tgccctctta cgtcctggat cgactgaacg gtacggtgac aggttcttat ctgacgctgg 360
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<210> 14209

<211> 484

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-011-Q2-E2-A8

<400> 14209

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catgtctgtc cctactttgc tctctgtcgc tgacctcaag agcaagctcg gtgggcccgt 180
agtggtcgat ggcagctggc acatgcccg cgcacaacaga gaccggtaca aggagttaa 240

aggaaacggc catatcccag gagcacgcta ctttgatatt gagtccatca aggacaagac 300
gagcagcctt ccccatcatga tgccgtctgc ggagcaattc gcacagcaag tcggagagct 360
aggcatctcg aacgatgatc atgttgctgt atacgacact gtcggcttct tctctgcacc 420
acgcgtatac tggatgttta aggcatttgg gcacaagaaa gtgtctgtnt tggatggtgg 480
attc 484

<210> 14210

<211> 479

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-B1

<400> 14210

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tcattggagaa agcccaaggg tattgataac cgcgttcgtc gccgtttcaa gggccagatt 180
gccatgcccga agattgggta cggtacaac aagctcacc gccacttgat gccctctggc 240
ttcaagaagt tctctgtgtc caacattgcc gagttgaacc tcttggtgat gcacaaccgc 300
acctttgctg ccgagattgc ccacaacgtc tcgtcccgca accgcatcgc cattgtcgag 360
cgtgcccagc agctcaacat ccgcgtcacc aacgccaacg cctcgtgtca gaaccgatg 420
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<210> 14211

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-B2

<400> 14211

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gaactcac gcattctcag gtaccacgag tgatcacaca gttccacgt tctcgccact 180
tggtggcccc aaccatagtc taccatgaac gaagtggag ccggtgtcgc gacggtctcg 240

tcgctcgtat cctccatcat cagcagctcg aaccgtgtgc gggatgaaca gatccagtgc 300
caggagttag caagagagtg caactggctc cgcgatcgcc tggaatctgg caatctaagc 360
gctgctgatg gtcccactgt cgaggctatc aacgaccttc tggatgagtg cgacaaggac 420
atgaagaagt ttgcaggaat cggcttttcc atgcgcacca 460

<210> 14212
<211> 471
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-B3

<400> 14212

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gcgagaaagg gtctcatcct cgttgggaaa gacggcaggt acattgtctc gacagagtgg 240
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agagcacccc tgctcttcca tccaccatcc accacagcaa caacaccaac ccctcgcaag 360
gtctattctg agcacacttt cgcctccacc agcacgctct gcaaagcaag cgttcttgcg 420
tcaaagtcga tatgggacaa gagcgccagc cggatgcaact gaatcacatc g 471

<210> 14213
<211> 469
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-B7

<400> 14213

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tcggcacata cgaggagacac attgggtgctg tctggaccgt cgatgtcaac tccacgacga 180
cgctcttggt ctctggttct gccgacaaca ctgccaagct ctgggatggt tcgaacggaa 240
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acaagatgat ccttctcgtc actgagcccc gtatgggttt cctcgccacc ctccagatct 360
tcaacgtcga gaacggcgcc acggagaccg tctcctcgga gcccttgacc gtcattcatc 420
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<210> 14214

<211> 469

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-B8

<400> 14214

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ctgtagcccc cacaaagtca cctaaactcg agtacttgct gactgagacc cgcggacgcg 180
tcggctctcg caccctccac cgtcccaagg ccttgaacgc gctctgcaac ggtctctttg 240
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actttatcga gaactatgcc gaagatttcc tcgggcactg gactcagatc atcaagattc 420
gcaagcctat catcgtcgcc gttaatggat tcgctctcgg cgggtggatg 469

<210> 14215

<211> 466

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-B9

<400> 14215

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ttgaggtgat gttgcacgag tatgagcggg gcaggacacc gaatccagat gtgacatgca 240
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atggcatgaa cgatacgtct agctcagagc aggaaaagga tacgcctctt ggatgggact 420

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<210> 14216

<211> 480

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-C1

<400> 14216

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gcctccctct ctgtccctca aggtcacac attaatccc tctttgcgtt cacttctccc 180

acactcgct cgatcgatca cacggctcgt gcaacagctt cttcaaactc tgtcacttta 240

acctcggtc accccaaatt ttccggctac tgcacaccag cgatggcgct ctcaaccgct 300

ctctctcat cgtcaccccc cgttctggcg gctctggccc gtgttctcgc ccagatcttg 360

accgctcca atatctcaaa gtcgctgggg gtttacatcc tctacctatt gatcaaatat 420

cgcaataccg ctttttgggt tcgtccccgt tctgaaatca ctgggccatg gagcgtgccc 480

<210> 14217

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-C10

<400> 14217

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tgtcgtcatc gacaatggta caggcttcac aaagatgggc tttgccggaa acaatgacct 120

ttcgtttatc cagcccaactg tcatcgccac cagagaaggt ggggccggag catcgggagg 180

accctctggt cctcaaagc cctcgttctt gaactcgtcc gcaagctcga atatcgctc 240

caagcgggc atcgaggatc tcgactttta tatcgagac gaggctgtgg ccaactcgaa 300

gacctatgcy ctcaactacc ccattcgcca cggccagatc gacaactggg accacatgga 360

gcgttactgg gagcagagca tcttcaagta ctttcgctgc gaaaccgaag atcactcctt 420

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455

<210> 14218

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-C2

<400> 14218

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cctcatgctg ctgccccggc ttttgcgga agaggtccac aaccagcgtg agagcgatca 180
gcctgtcaag aatatcaaga ttggattctt cttgcatacg ccattcccca gtagtgaggt 240
ctacaggatt ctgcctgtgc gcaaagagat cctgctcggg gtcctgaact cggatctgat 300
tggtttccac acctacgact atgcgcgtca cttcctctct tctgcactc gcatcctcgg 360
tctttccacc atgccaacg gcggtcgact tttaacgggt ccctatgccc aagttcggca 420
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<210> 14219

<211> 464

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-C3

<400> 14219

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<210> 14220
 <211> 466
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB36-011-Q2-E2-C4

 <400> 14220

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caagagcatg gtgaccacac aaggctctca aggtcataaa ggangaatct cgcgtgtgcg  420
atggtaccct ttcgacaacg gaatgtttac gacatcctcg ttcgac                    466
  
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<210> 14221
 <211> 459
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-011-Q2-E2-C5

 <400> 14221

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<210> 14222

<211> 488

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-011-Q2-E2-C7

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tccgacaagc agcagtggga gatcacgcgt tgatgggtgc tgcatanccg aggctcacia 480
atcatgtc 488

<210> 14223

<211> 482

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-C8

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ctccctcaag acacacaaag cataccctac aatggccgctc actctcccca cccctactca 120
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<210> 14224

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-C9

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aagtgccctt tcaccggtga tgtttccatt cgtggccgca tcttactgg tgagggtatc 240
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tacaaccgtt acgagaagcg ccacaagaac ttggccgctc acttgtctcc ttgcttcatt 360
ggagtccaac aggggtgactc tgtcactgtt ggtcagtgcc gcccccttc caagactgtc 420
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<210> 14225

<211> 475

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-D10

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ttgagaagtc cagcgagctt accgaggacg ctgagcaaat caaattccgc aaggacatgc 420
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<210> 14226
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-D11

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cccgagcctc catcgatgcc ggcaccgcca tcgattcccg caccaccctc catgccggag 180
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aacaacgact ggaccaagag tcagtgcgga gct 453

<210> 14227
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-D12

<400> 14227

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attctcgagt cattcacgga cgtccttcta tactgggtcc cattctactt ctttctcaag 360
tctgtcttct tgctttggct catggtaccc tcatttaacg gtgcgcgcac gatttacctt 420
agaatccttc gtccggttctt ggttcaacat cgtggcga 458

<210> 14228

<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-D2

<400> 14228

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cccattgcct caagcacgtt gactcttctc'ccccatccct aatgacactc accaacacctg 120
ccaatctcgt ggtcgttatt accggttgcg ataccggttt cggctcagag atcacggagg 180
acctctatca gcgtggacgc tttaccatct atgcgacctg cttgaccgat caagccgtcg 240
agaactacaa cgccagacag tcatcccgca tccgcgctct ccaagtggat gtcacaagac 300
agaacgacgt ccaccgtctt ccggctcaag ttgcggcgga gtgccc 346

<210> 14229
<211> 473
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-D3

<400> 14229

cgacccgacc ctctacagta agtcagtgtt acagcatgat cggaaacttt gacaacgcct 60
tcttccgtgg tgttctggac gctccctctg tgggctcggc caagatcccc gacattgtct 120
ttatgctgtt ccagggtatg tttgcggcct tgaccccgagc actggctatc ggtgctgctg 180
ctgagcgtgg tcgcacctc cccacgctgg tctttatctt tctctggacc acctttgtgt 240
acgactttat cgctgctgg acctggctgg ccaatggctg gagctttgtt atgggcggcc 300
tcgactttgc cgggtggcacc cctgttcata tttcctcgga cgggtgctgcc ttggcctacg 360
ctcttgcctt cggcagacgc tctggcgacc acaaagattt ccgcgctcac gccatgagca 420
acgtcgtcat cgggacttgc ttcacccggg tccgctgggt tggattcaac ggt 473

<210> 14230
<211> 495
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-D5

<400> 14230

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cgtgaccatt cctgaagact acctgcctat tgtcgatggc ctctcttgga agaagatcct 120
cagggaggga tgggtgaat cgcccagcat aaagtcgaat gtcaatgttc actatgtcgg 180
aacccttttc acaaccggag agaaattcga ctctctcgc gatcgctcct ctcccttcaa 240
cttcaaactt ggcgttgcc aggtcatcaa gggttgggac gaaggtgtca agaccatgaa 300
gattggagag ctggctgaac tagtgtgcgc acctgaatat gcctacggag ctcaaggaag 360
ccctcccaag atccccggca actctactct caagttcgag gttgagctgc ttgacttcca 420
ggagtccgct gacaaacca ctgccagct ggctttggcc cagaagaaga acgatcaacg 480
aatgcatct ttcaa 495

<210> 14231

<211> 282

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-D6

<400> 14231

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gcgcacgaag acaaagttcg acttgggccc tcatgctgcc aacaccaagc tcggtgtca 120
ccgcatccat gacgtccgca ccagtggcgg taccgcaag ttcggtaccg tgcgtttgga 180
tgccgaaaac ttctccagcg gttccgatgc catctcccgc gagaccgta acattgctgt 240
tgtctacgac gccgccaaca tccacttcgt ccttaccggt ac 282

<210> 14232

<211> 458

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-011-Q2-E2-D7

<400> 14232

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gcccgcagct cccctgtggt tcgcgccaac gttggtgct tctctgccat ccgcaactac 120

gccaccgcca agcccgccac ctctgaggtc acctccatcc ttgaggaccg catcagtggc 180
 ctttaactcgt ccgttgacat tcaggagact ggtcgtgtct tgtccattgg agacgggtatt 240
 gcccgtgtgt atggcttgaa gaactgccag gccgaggaga tggttgagtt ctccagcgga 300
 gtcaagggta tggccatgaa ctgggaggcc gataacgtcg gtattgtcgt cttcggtaac 360
 gatcgtctca ttcgtgaggg tgataccgtc aagcgtaccg gtaacattgt cgatctcncc 420
 gtcggcgagg ctcttttggg ccgtgtcacc gatgcctt 458

<210> 14233

<211> 486

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-D8

<400> 14233

gggactcgcg gttcgacgca agactctaca ctgacgtcgt attagtcttt gatcggcctc 60
 tatattctct ctgaggagga atgggcatac catgatgaag cccctgtcaa gatcgacttt 120
 tggatgagga acctcaccag ctggaagcat tcactagaca agttggccat acctttggtc 180
 gtcaagaggg ctgcttgcaa agcagaggtc gccggcattg tcgaggccgt cgttcgtgag 240
 atggagatca gtcattgtgt ttggaatgca gagctgatga tagatgagca aagacgcgac 300
 gcagccgtca ggaaagtgt ctccaggctg tccaacgtgc atgtggagga gtgtgatgat 360
 cagtgtgtcg taccacctat ggatgtcaaa actaagacag ggaacccgta tacagtcttc 420
 acgccattcc acaacagctg ggtgcaaact ggtggaaaca gagcctcatt agccccaac 480
 tgtcag 486

<210> 14234

<211> 465

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-D9

<400> 14234

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 cggcaccgcc ccagtcaca agcccaactt tgtggaaaag atcgtggaca agatcaagca 120

tcacgggcac ggacacggcc aggaccagaa ccagcactag caacctgcta ccgctaata 180
 ttcccaaaag atgtgccaca cctatggtgg tcccagacaac gaacacgaca atgcctatgt 240
 tgctgaggcc tcgattgtgg gagcccatgc aattccccct atgacgtttc acacagaagc 300
 acaccgctct gaccatgtat cctctggagc accccgctct cagactcagc ctcaggcagc 360
 acaagcgcaa cagacctcga catcgacggg tgcgcacggg cactcgccaa atgagccatt 420
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<210> 14235

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-E1

<400> 14235

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 ctctgcccgc tctcgccctc cgccatcatg acacgcacgc ctctcttcac cctcttgctc 180
 gtcgtgatcc tcgccctggt ctcgcaagcc gacgctcagt ccagggtcaac cgtcaagccc 240
 cactgtgctc ctctgcacac cctcttcaat gacgctgttg ctgtctttaa ccataacggg 300
 tataacattc ccaactcaga ttccgaacta cgatgcaatg catgcatctg cacagacggg 360
 gtcactcactc tcgct 375

<210> 14236

<211> 462

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-E10

<400> 14236

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 cctcaagatt accgtccaca attgagagca cttggaagac gtcgagaccg ggggaaagaa 120
 cgatccctat gtccggatct cctctgcttg cacggatgac aagcagtagc gcgcgcacaa 180
 gactagcact aaaaagaacg ctggcaagaa ccccgagtgg aacgagacca tcacctttga 240

gaactacgag aagagcacga gccctgagtg tttcatcgag gtcattggagc aagatatgac 300
cgccgacgcc ccaattgggt actgtatgat ccccttgacg caggttctca atgctgagaa 360
tcacgtcttc aagggtcgct tcaatctgtt taacactaaa ggaaaggagc acggaagtat 420
ttctcttgac cttgccattg tcgctcccg ccaggctgcg cc 462

<210> 14237

<211> 474

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-E11

<400> 14237

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actttatata cgagaatggt gcgttctaata ctcaaatcg tcatcgcggc catgcttggt 120
gccttgatcg ctaccgccgc catggctgcc cctcaagcta aaaagaagcc cgccgcaccc 180
aagcctatca agggcaaggc aggccaaaca ggagtgatcc tcaaccaatc cgacttttgc 240
atcttcttgc ctcccatgta cggaggagac atcgctgcga acgaggaccg cgctggtgcc 300
ttctgcacca agcctggcct tcccggtgcc aacgctcaga acctgcccgc cggctttatt 360
aagtcggctc actttttgtc cgaccgggcc aatggttacg ttcaggtcac cggtcgcatg 420
gatggcagca agtacggctt gagcaagaat gatggcggtg gacagtatga tate 474

<210> 14238

<211> 466

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-E12

<400> 14238

caaaccata tcttcgacat cctgaccag caccctccac tcccacaacc cactcttata 60
aaacaccttt acaacatgga ctcttcaatc gagaacaaga tcaaccgcgc ccttgccgcc 120
aaagtcggag gcatgagagt cgccgcacca gaccaccccg tccccgttgt ccgcaaggag 180
cacgaacgca agaaggccga ctccgaggag gaaagcaacg aggatgagcg tgagctcgag 240
aagacggatc ggttcgagca cgagcaacag acccgcatgg ccgcccgtga acgccaggca 300

aagatgcagc agaaccagcc caagcacgag cccatcaaca acttccgtca aaaccagaac 360
atccagggtca accagcccat cctgcatacc cacagcaagt ccggtgccgc tgcccagaac 420
taagcaagta taatcactgg aacgacgagc gcatgaacct gtattc 466

<210> 14239

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-E2

<400> 14239

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ccctttgtac ctctcccttg ccctcgttga ctgacaagaa aaagttgagc aaccatgggt 120
aactttacta ttgaccaaatt ccgtgccttg atggacaagg ttgcgaacgt ccgcaacatg 180
tccgtcattg cccacgtcga tcacggaaag tcgacctga cagactccct ggtgtcgatg 240
gctggatatca tctcccaagc ccgtgccggt gaagcccgct ttacggacac ccgtcaggac 300
gagcaggacc gtggatcac catcaagtca acagccatct cgctgttctt cgagatgaca 360
gaagatgacc tcaggggacg tcaagcaaaa gaccg 395

<210> 14240

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-E3

<400> 14240

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gcacatggta cccgggatcg acgtctcgaa cgatcgcatg ctccagggtc gtctgttctc 120
ctaccccgac acccaccgcc acgcgtctcg ggcceaacta cctgcagctg cccatcaacc 180
agccctaccg tgctcgctg gcccatcacc aacgggacgg tccatcgacg ttctcacaaa 240
actttaatgg gtccccaac tatgagcccc aatccgtgga tccctcgggt ccggtccagc 300
agcttcagga tgtgacggcc aagtactcgc ccgtgagtct gaatgggacc acgggtcgggt 360
acccgcatcg cagatccgag gatgactttg tgcagcctgg aaatttgt 408

<210> 14241
<211> 447
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB36-011-Q2-E2-E7

<400> 14241

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ctgacagtcg ttcgaccttc aagcgcacct ctgccacacc acaactcgcc tcgccatgaa 120
acccacgcgg caccatctgc ttctggcgct tggcttctcg ctctggcca tcacccttctc 180
catcctctac tcgctccggc agagtgcgct cgataacctc ctctccaacc atgtctcggc 240
gtcaccaaag ccctcgcgtc ctgttgcgct ggctcgtcca cccgcgcca agagccggtg 300
ggacctgct caaaagtacc ttgtctatct gccctttgag ggcatatcca accagttcta 360
ctccttcag aacgccgcca ccatggcca acgcctcaac cgcaccctcg tcgtgncccc 420
atcacctcan accgccatga ccgtctc 447

<210> 14242
<211> 456
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-F10

<400> 14242

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aaaccgagac caaacgaaca gtcgtgatgc acaacgcca tgatatgctg gattgcacta 120
aaggagagga gaagcacatg gagcagatgt tgcaaggtat cgccgatgca tgtgtcaatg 180
tcgtcgtcag tggcaatgat gtcggagagc tcgcccttca ctacttgaac agatttggca 240
tcatggtcgt caaagttctc tcaaagtttg atctgaggag attgtgccgt gtcactggcg 300
ctaccgcgct ggctcgtgtt ggtgccccta tggctgaaga gatgggattc ggcgacattg 360
tcgagagtgt tgaacacgga ggtgaccgtg ttactgtgtt cagacatgat gatgagattt 420
catagactgc cacgattgtc agtcgctgtg ccaccc 456

<210> 14243

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-F11

<400> 14243

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gatgcattct aaaccaggaa acattcacgt agtcacata caaaaagggc tgttcataga 120
gtaataattc ctgcatcatg aacactaaat cataacgatg acatgaaaca cagattcagt 180
cactacgcag taacttgagg gcacctacgg tcagcaagta ataggacaca gggtcgacgt 240
cccagtgact actgatgaga catcaacagt ccatacatcc atgtcattca tcatgcaacg 300
tgtcactttc acatgtggct gcactcattc agcagcataa ggcaatttac ttcgacaacc 360
agcatcaact ttgcacacat gatcagggct atcacgagat ggggacctc 409

<210> 14244

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-F2

<400> 14244

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acgaccacca ctgtcaccaa ggaagaggtc actctcgagc acgtcaccaa ggagactgtt 120
gtcgtggaag agaccgagga gcacgatgaa gccgtcaagg aggtcattgt cacggagaag 180
aaggagaccg gagtgggtgc taagcccgcc gtttccgaga agtcatcgtg gttccgccgt 240
gctctctcta ccggtgctgc agccgtcgct ggcgaggtg ccattgcagc cgggtgcagcc 300
tctggagctg gccaggccgc ctctggagct ctcacccagg ttgacggtgt ctggaaacgc 360
actgtccagg t 371

<210> 14245

<211> 464

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB36-011-Q2-E2-F3

<400> 14245

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agcatcacia ccccgactct tcaactctct caccatggct aagaaagctg ccgccgccga 120
cgtttccaag aagagctgcy cttgcyggcag acactccatg ggcgacaagg agccctgccg 180
cttttgccct cgcgtcgtct gtgacagctg cagagaagag tactgctgtg gcccgatctg 240
tgaaccttgc aacgcggacc gcgagcatct gatgcagtgt gacaagtgcg aggccccctg 300
ctgtgaaaag tgcattgtca tcaccaaggg cgctcgcgag ggaaactcgt gcaagagctg 360
caagaagaac gcccatgctg ccgcggccga tgcccagcct gctgccatca gcgtctanna 420
tagaggacac ganaggaatg ttcacatgtt caggcaaccc gacg. 464

<210> 14246
<211> 415
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB36-011-Q2-E2-F4

<400> 14246

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tctctcgcaa gcccttcagc gccacatagc actcacaatg gagcacatcg agcattccca 120
gttgacacac gaccccgctc accgcttcca gtacgtggcc aagttcatga actttggcga 180
tgaggacatc caagccatcc aggggtgccg agagctcatc aagcccttgg tacccgtcgt 240
tgtcgatgcc gtctacgcca agctccatca gttcgacatc acctgggacg tcatggccaa 300
gcgccacgag ggatacacgc ccaaggacgc aaaggtcatt gagaagtcca gcgagcttac 360
cgaggacgct gagcanatca aattccgcaa ggacatgctg aacaagtact ttgcc 415

<210> 14247
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-F5

<400> 14247

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cgccatctgt ttcgggaatt ctctctgctt gcaaacatgg gatgcttcac tcgcaagacg 120
cacgcagccg cacagccagg agttaacacc accactggga atgcccccca cgacatatat 180
tccatgcaga cccggccaac gtttggccag tggatcaaac acacatggct tgaccttttg 240
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cgatcctttg ccgtcacctt ctcagatggc gagatcgtct accccgattt tggctaccct 360
ttgcgcaaag agctcgtccc catttggtc ggcgccttcc tggccgtcct tgtaccggtt 420
ctgggtttcc tgatcatgca gattcgcgtc cgggt 454

<210> 14248

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-F6

<400> 14248

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agcacacttg cagcacactg tagcacacat acaccaccag caaacactct tgacgacact 120
tctctcttca cgacattcat catgacccat tccacatcac acagcaagag ggcgaccagg 180
accgcacact cgaggaaacc atgggtcctgg ctgggcttga ccacagctgc cctcttcatg 240
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gtcgagtaca ttgccgactc ggaaccgacg atcgagctca cgtttgaggc caatgactcg 360
tactaccttc aagccctgac cctcaaccaa tgtcagaacc agctcgtcct gcccgagaac 420
ggaacgcatg tccgctctta ctacgccatc tacac 455

<210> 14249

<211> 449

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-011-Q2-E2-F7

<400> 14249

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cacacgcatg gccatggaca tggacatggc ccagggcacg ctcatttgca tcaccacggc 120
cgtacgcegt caacaggcca tactagccat gtctcctcct cgcggactca ttcacaccgc 180
cattcaaaat caccgtccta tcaaaagagc cccagcctcg agcgtgctca acagcaaaag 240
cgtgagcaac aaacctcaga tcaggcacgg cgccgggtctc agattttggc gctcccagca 300
ccgcagccgc agctatccac gtttacgagt ggttcgtcct gtcgggaagg cttcgcagta 360
nggtcagata ccaacggctt tcatcgtcct tcaagtcctg caatacagag gcaggataag 420
cgctcgccat cgccagcgca tgaggatgt 449

<210> 14250

<211> 475

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-011-Q2-E2-F8

<400> 14250

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cttgcgcatc tccattcttt gcatataata taaccacac tccctctac cccccact 120
cttatctaca acacatcatg gtcaaggaga caaagtacta cgaggccctc gaggtcgaac 180
ccggctgctc tgattccgag ctcaagaagg cctacagaaa gttggctctg aagtaccatc 240
ccgacaagac tggaggcgct accgctgaaa aattccagga gatcagccat gcatacgaca 300
ttctctccga cgcacagaag cgtcaggtct atgatcagta tggagaggct ggactctctg 360
gcgagggcgg agccggtggc ggaatgggtg gcctctctcn cgaggacctc ttctcgact 420
tctttggggg tggtggtggc ggcggacgtg gaggcgctcc ctccggcccc cgccg 475

<210> 14251

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-F9

<400> 14251

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 aagcagttcc ctgagttcta ccctgaccgc cagcgtttga ccgtcgagaa gactgctctg 180
 gagaccggca agactctggc tgaatatgga ctcaaggatg gcgactcggg tgccttcaag 240
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 ttgatccacc ccctgattta ctacctcccg tccttgttct acggcaagga ctttacacac 360
 agctggatgc aaactgtcgc ctactggatg gtcattgtcc atttcttgaa gcgtgaatac 420
 gaaaccgtgt ttgtacaccg attttcacat ggaacgatg 459

<210> 14252

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-G1

<400> 14252

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 gcagcagtgc agcccagccc agcacacccg cacgggtcaac agataactcc gcgaacgcag 120
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 cgtccctcag cagtctcgac atgaaccaca cacacgacag taccgagtcc agcaagcgcg 240
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 ctacggagga catcttcaac ccgcacgacc cacatattcg cgaggatatc atccggatga 360
 ttatgcagta cctcagcgac gaaggctaca atgcttccca gatgacgatt caggacgaat 420
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<210> 14253

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-G11

<400> 14253

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 cgacccccag aacacgggca gaattgagcc gtctgcattc cagaactttg ttaatacctt 180
 gggagacgaa gagctgaaga ggtcgatccg tatccctacg cacgccattg accttcgtga 240
 gttcacagac ttgatgaacc gctacaacaa tgacacgaac aaggaccccg aggagcccta 300
 ccgccgtgcc ttgcctcca tcaacaacga cggctctggc catgtgtctg cggaggagct 360
 tcgagccgcc gtggggaagt ttccttggac caatacactc tctgaggctg atatcgatga 420
 gatcatccac gagggcgacg tctcgggcga tggacgca 458

<210> 14254

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-G3

<400> 14254

caacagcatg gactggatgt acgccaactg ctcgaccaca gccagcgtg gtgctctcga 60
 ctggtggaag aagttccatg atgcctccaa gccatcttt gaggagctgt acgagtctgt 120
 cgccaacggc accgagacca ggaggtcgct caccaagaac tcagccccca actaccgtgc 180
 tgagctcgag gctgagttgg ccgagatcgc caaccacgag atgtggcgca ctggcaagtc 240
 tgtccgcaag ttgagaccgg agaaccagta aaacgcatgc ccaggccgac tatccatttc 300
 tcctttctag actgttttcc tcattatgcg ctttgcaatt gtaccatacc aactgaagt 360
 cagagaataa atgcaccttc tgaacccc 388

<210> 14255

<211> 465

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-011-Q2-E2-G5

<400> 14255

cgccatcaac gccaaaggac cctttgctcg acacaccgac gagatctggg gtacgcagct 60
 cagcaagaag tctgttcagg acaagtctgg acgcgccgag cgccgcgcag ctgaaaaggc 120
 ccagaaggct aaagagcaag cgcaggctaa tgctaagcac gccaaaggcc aagccgacgc 180

ccaggcagag agcctcaagg acacgctggt gaagaaggcg gccagtgcc aaaagctggc 240
ggaggagtat gcagagggca tcaaggcagc tgtgcgcggt caagccgacg aggtcaagaa 300
ggcagccgat catcacgcca aggacgtacc caagcctgag gagatcaagg ctgctgccgc 360
cgagaaggga cagggcgctc agcgaaaggc cggggagttt atcgagcatc tgagcgaaac 420
catgatcagg aaggcacacg acgcgcaaaa naattgtcgg tgatg 465

<210> 14256

<211> 459

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-011-Q2-E2-G9

<400> 14256

ctcacacctg ctctgcatc ctcacctcac tctgctcggc aggtagcatt cctcttgatc 60
atccgctctg tccaggaag ccgatccatc cgggtgccga tctgatccca ccaccgcaac 120
cagccatgca gttcctgaaa gtcgtctcgc cctgcgag gacccagtct ctacgcatcc 180
tggccatcct cgtcatcttc ttgctcctgg catccgtctc ccgctaccag gggtcatacg 240
aatactccat cgacgaggac ggccagggtcc agtccgtgcc ctcagacgtc acagagcacg 300
atatctactt tacgcaccac atcgccacct ttgaccccaa cgaccttcgg ccctggacca 360
aaagcgacac agaggcgctc aagacgccag naggacagga agtggtcgac tacctgacag 420
actccagttt ccaaaagcac gtcgccgaga atgacacag 459

<210> 14257

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-H1

<400> 14257

tgccgtagtg ctctataaaa gccagcaca taccgcctt ctctattcc gttttcacac 60
ctcaccgcg ttccattctc ttttttagca ttcgcttctt ggcgcacggc tcattcacgt 120
cctacgccta ctcgacctaa gccccgcct tgttgataga gcagcaattc cactctccac 180

tctacactct acactctcca ctctccactc tctcatctcc cccttcgccg ccctgttccc 240
 ctgttttagtc cttccttaca atgccgctct ttgcgcctct aaggatgccc atcaagcgtc 300
 gtatgcagac aggagctgtc ctgctctgga tctcggggat catatacatg ctcggtatct 360
 ttgtctttct ctgcacgttc aaggctctcc ggaccctgat catcatgtac ctgctctggg 420
 ccttcatac 429

<210> 14258

<211> 458

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-011-Q2-E2-H10

<400> 14258

ccaccactca ctaccccttg gctataactt ccagagttac ctctgtcaag gaaagctatc 60
 ctcggtattc gaaccaaccg atgcaaagcc aaggactggc atcagagtcc tggccgtacc 120
 agggccctgg gcctcgctt ggaagcaacg taccaggac aagtgcctt tgcaaacacg 180
 ccgaaggctg gggtcgctg agtccaagtc ggtacgatct gaccccatgt ttcgagtaca 240
 gtgtctcttt tggcgccgtg tccctgatcg ccattctcgg gttcaccata cggatatact 300
 acctgactca ccatgcaaag gcacataatt tcggaagaac tgcttgatc tattggccga 360
 cgcaactctg catgggactc ggagcgctta tggcctgcac gttatcganc gcgcattttt 420
 cgtctgagaa ctcatcgcca atcttttctt gnagctgc 458

<210> 14259

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-H3

<400> 14259

actctaacta gttcgctcc tgtctgctgt gcagaacatt accgtgcact cgcctccctc 60
 gtcaccattc attcgctcac cccaccaacc accgaggcag tacaagcact actcactatt 120
 gctaattgta acaagcacat gctggtcatt ggctcagag attaaatcca tcctcagaaa 180
 cttgacggca tctacatgat ggatgtcgta caactcacgg tacactttca agtgccttgg 240

gtcaaaacag cgatccttac aagccgacgt ctctatcagc atcaacagta tcactttcac 300
 aaatggctgc aatcctgccc aacgcaaagt acactttctt aacgactcag cagctgtctt 360
 g 361

<210> 14260

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-H5

<400> 14260

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 cattctcaag tttaaggaca ctgatggctc gcccttggtt gagcacatca aggacacagc 120
 tggccagaag ggaaccggaa agtggactgt cgtctctgct ctcgataacg gcatgcccgt 180
 taccctgata ggtgaggccg tctttgcccg ctgctgtcc gccatcaaga acgagcgcgt 240
 ccgtgcttcc aagatccttt ccggcccca cggcaagttc actggtgaca agaagcagtt 300
 catccacgat gtctccaagg cctgtacgc ctccaagatc atctcgtatg cccagggctt 360
 catgctcatg cgcgaggctg ccaaggagaa ccgctggcac ttgaacaacg ccggtattgc 420
 cctcatgtgg cgcggcggct gcatcatccg ct 452

<210> 14261

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-H6

<400> 14261

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 ggctgttcaa acagtaataa ttcttgaca tgaactactaa accagaacga taacaggaaa 120
 caaagatata gtcagtactc agtagtttga gggcacctac ggaaagcaag taatactaca 180
 gagggtagac gttccagtgc ttaatgatga aacatcatca gtacaagcaa acgtgttttt 240
 catcatacac cgtatcactt tcacaagtgg ctgcagtcac tccgcagcat aaggagattg 300
 acttcgagaa gcagcatcaa ctttgccgag aggagcaggg ctaccaggag atggggacct 360

ctcattgcta cgcctttcag gagacatctc cttagaagga gaggcctttt gcaaagcagg 420
gcttcttggg 430

<210> 14262

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-H7

<400> 14262

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acagcagcag atatgactgg catactcgac gtcaacttcg atgaggctct cgccgccgcc 120
atgacaagcc actaactga ggacctggag cccacactcg ctgagaggtc gtttttaccg 180
cactcgccca acattccagc taacagccgc agcagcatta gctcgccctc ctccagtaac 240
agctcattct ctgcccggaa tgactcaccg gtttatagca atgggtctcc ttcgagcact 300
ggctcctccc tcagcaatgg cttttctcgg tatgccaatc cagtggacag gagaaccatc 360
ttgaacaccc gccagcagtt tgaagaccaa agacgggcaa agctggacag cctcgaggaa 420
gccctttcgc gattggacct tagtaacgcc cgcac 455

<210> 14263

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-H9

<400> 14263

tgacacactc tccagcggcc cacccttacc cctgctcaag acgtctttct ctcttttgct 60
cactcagcga cgcatacaca cacacgctct ctctctctat ctcttcttca gtcacgtata 120
taactcccag tgcgatggc gcaacagccc tctcctgtag aactccaggg acgttggtccg 180
cggctatccg cctgcatcga gccaccacag cttttgccac acctgcagct cgcgcgttga 240
gtacgcatgt cacaaacgcc gcctgtgagg accacgaacc aagcttccta ggttctgtcg 300
aaacgtttta cgatcgcgcg gccaagatta ggggatctc cgaaaagtct ctaatgggca 360
tcaaggccgt tgactctgtg ctc 383

<210> 14264

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-A10

<400> 14264

cacacgcgtc cgacgatacg caccaccag aggaaaaggg caaaagccaa aaggcatcac 60
cgccgcgacg acgatggcag cctcgctcca agccgcggcc accctgatgc agccggccaa 120
gatcggcggc cgggcgcctt ttgcctcgtt gccgtcccgc cgcgtcgtcg aactcgcttg 180
cagggcggtt gccgtcgacg ccggcgccgc caggatcacg tgctccctgc aggacgtcgc 240
cagcaggtgc gtcgacgcgc cgaagctcgc cggttcgcgc ctgccacct ccgcgtctct 300
cgtctcgggc gcgagcgcgg agggcacgcc caaagaggct ga 342

<210> 14265

<211> 421

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-012-Q1-E1-A11

<400> 14265

agcaaccggt ccagcacttt cacgctcagc tccagcaatg gctgcctcca ccattggcgat 60
ctcctccacg gcgatggcgc gcacccccat caaggtgggc tccttcggcg agggcccgat 120
caccatgcgc aagaccgtgg gcaagcccaa ggtggcggcg tccggcagcc cctggtacgg 180
ccccgaccgc gtcaagtacc tcggccccct ctccggcgag ccccgagct acctcaccgg 240
cgagttcccc ggcgactacg gctgggacac cgccgggctg tccgcccacc ccgagacctt 300
cgccaagaac cgcgagctgg aggtgatcca ctcccgctgg gccatgctcg gcgcgctcgg 360
ctgcgtcttc cccgagctgc tctcncgcaa cggcgtcaag ttcggcgagg ccgtctggtt 420
c 421

<210> 14266

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-A12

<400> 14266

acaaaagcta ttattggaac catagggcat gttgacgcct accagctacc agatgctaaa 60
ggttacagca gcctaattgag atattttgctg ggcattcacgg atgaggaacg ccaacaaaga 120
cgtgaagaga tactagcaac aagcccgaag gattttcaagg agttcgtctga tgctgttgaa 180
accatcaagg acaatgggggt cgtgggttgcc gttgcctcga tagatgatgt tgaagctgcg 240
aataaggaaa acccgctatt ccctgaagta aagaagtgtc tgtgaggtcc accaccactt 300
gataaggatt ctagtcggga ggtgtttttt taccagtga tgcggagtgt gacaatatac 360
gtaacatatt gcaagagcac catctctccg accacggtta tagctagccg aatcttggct 420
tctcaaaa 428

<210> 14267

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-A8

<400> 14267

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ttgacgagac acaagcccat caacgttaga tttattgagt ttatgccatt tgatggtaat 120
gttttgaatg tgaagaagct agttccttat gcagagatgt tggacaaagt gcggcaaagt 180
tataaaggag tagagagact tcaagatcac cccacagaca ctgcaaagaa tttcaggatt 240
gatggacatg ttggcactat ttcatatttatt acatcaatga cagagcattt ttgtgctggc 300
tgcaatagat tacggttatt ggctgatgga aacctcaagg tgtgcttatt tggcccctca 360
gaggtaagtt tgagagaacc catccgtact ggtgttgatg acgctggact gaaggagata 420
attggtgcc 429

<210> 14268

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-B1

<400> 14268

g ttg c c g g a g c c t t t c a g t t t c a t c t t c a c a t g g t t c g c c g c a c t g c c t t t a a t a t t t t g 60
g g t a g c g c a g g c g a t c a c t a a t g t c a t a g t g a a g g a c t t c c t g a t c t t g a a g g g t c c g t g 120
t c c a a a c t g c g g g a a t g a a a a c c t c t c e t t c t t c g g t a c c a t a c t g t c a g t g c c t a g c g g 180
t g g c t c a a a a a a c a g c g t g a a a t g t g c a a g c t g t g g c a c t g a g t t g g a g t a c g a c t c a t c 240
a a c c c g a t t g a t c a c a c t c c c a g a a c c g g c t g a g g c t t a a t a a g t g a t g g c g t g g t t t c g 300
a t t t c g c t a g c a g g a a a g a t g g c c c g g c c c g c c c g c a a a t t c t t g a t t g t c g a c a g 356

<210> 14269

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-B10

<400> 14269

c a a a a g g g t c c c a a c t c t c a a c t c g c g t c a a t g c a t c c g c t a t c g t c t c t c c t c t g t t 60
c c g t t c c g c c g c g c c g c c c a g c g c g t c c c c t t g c g g c g g c g g c g g c g g a g t c a c a c g c c 120
a g t g c g a g c a t c a t g g c a g g a g c t g g g g g c g t g c t g g t g t t t c c g c c a t c c c c t t c a c t 180
g c a g t c a a g g c c c t c g c c a a c a g t c c c c t g g g t g c c c g c c t c c g c c g c c t c g a g g a c 240
a g g a a g g c c g c c g c a g t g c c g a g g e t g a c g c t c t c c g c g c t g c c t c g c g c g g c g c c c g t 300
a a c a a c a g c t t t t g g t a c g g t g g a g a t c g g c c a c g g t g g c t t g g t c c c g t g c c t t a c g a c 360
t a c c c t g a g t a t t t g a c a g g a g a g t a c c c t g g a g a t t a t g g g t t c g a t a t t g c a g g t c t g 420
g g a a g g g a 428

<210> 14270

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-B12

<400> 14270

c g g a c c g a c g a g c g a c g a a g c g c g c a g a a a g a g a a g a a c c t c g g a g c t g a g a t g g c a c a a 60

gccatggcgt cgatgaccgg cctctcgcag ggcgtcctgc ccagcaggcg cgccgacagc 120
agaaccagga cggccgtcgt catcgtcagg ggcgtccgagg agggcgacgc cgttgccgag 180
gcgggccgcc gcgccgtgat cgggctggtg gccactggca tcgtcggcgg cgccttgctg 240
caggcgccgc gcgccgagac cgtcaagacc atcaagattg gagccccgcc gccgccctcc 300
ggtggactcc ccgggactct caactctgac caggegaggg acttcgacct ccccttgaag 360
gagcggttct acctgcagcc gctgccgccg gcggaggcgg cggcgagggt gaagacgtcg 420
gcgcagg 427

<210> 14271

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-012-Q1-E1-B2

<400> 14271

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agggagaagg aggacaagga cgacaagtgg caccgcgtcg agcgcagcag cggccagttc 120
gtcaggcgct tccgctgcc ggagaacacc aagggtggatc aggtcaaggc tggcctcgag 180
aacggcgtgc tcacggtcac cgtgcccagg gcggaggaga agaagcctga ggtgaaggct 240
attgagatct ctggttgagc atccaatcca atatggacga ttggacgtgg aaggtttcct 300
gtgtcttcta cgatataata attggtcgct gtctctgttg gatgtttcct gtgtcgtcta 360
cgatatatta atgtacttct gtctgtntcg ttctgtatgt acaatcttcc gggatccctt 420
catgt 425

<210> 14272

<211> 431

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-012-Q1-E1-B5

<400> 14272

cgcacgcata cacagcacag agtgaggtaa gcatccgaaa aaagctgtga tctgatcgac 60

atggcgcgcg ccaccatggc tctcacctcc cgcgcgctcg tcggcaagcc ggcgaccagc 120
 accagggacg tcttcggcga,ggggcgcatc accatgcgca agactgctgg caagcccaag 180
 ccagcggcgt ccggcagccc ctggtacggg gccgaccgcg tcctgtacct gggcccgtg 240
 tccggccagc cccaagcta cctgaccggc gagttccccg gcgactacgg ctgggacacc 300
 gcggggctgt ccgccgacnc ggagactttc gccagaacc gcgagctgga ggtgatccac 360
 tgccgctggg ccatgctggg cgcgctcggg tcgctgttcc cggagctgct cggccgcaac 420
 ggcgtcaagt t 431

<210> 14273
 <211> 456
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-B6

<400> 14273

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 gagcatcctg gccatctggg cgtgccaggt ggtgctcatg ggcgccgtcg aggggtaccg 120
 catcgccggt ggcccgtcg gggagggtgt cgaccgctg taccgccggc gcagcttcga 180
 cccgctcggg ctgcgccagc acccgagggc gttcgcggag ctcaaggta aggagatcaa 240
 gaacggctgc ctgcgccatgt tctccatgtt cggcttcttc gtgcaggcca tcgtcaccgg 300
 caagggtccc gttgagaacc tcgccgacca cctcgtgac cctgtcaaca acaacgcctg 360
 ggcctacgt accaacttcg tccccggcaa gtgagcgagg gcatatacat acgtgtatgc 420
 gtgtaccgta gacataccta atcgtatatg tactgc 456

<210> 14274
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-B7

<400> 14274

gcaatttcgc cctcgattcg acccggattc gtccgcccgc gaccgggatt ccctccgcca 60
 agcgcggatc tgaacgctgc gctccgtgtc gccgctcgaa tccgcatga agggggccaa 120

atccaagggc gccgccaagg ccgatgccaa gctggcggtg aagagcaagg gggcggagaa 180
 gcccgccaag ggcaggaaa ggaaggccgg caaggacccc aacaagccta agagggctcc 240
 cagegctttc ttcgtgttca tggaggaatt tcgcaaggag ttcaaggaga agaaccctaa 300
 gaacaagtct gtcgctgcgg tggggaaagc tgctggcgac aggtggaaat ccctgagcga 360
 gtcggacaag gtcacctatg tagccaaggc taacaagctc aagctcgagt acaacaaggc 420
 catcgctgcc tacaa 435

<210> 14275

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-B9

<400> 14275

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 tcgagaacga agccgagctg gtgcgcgcg ctgccccgc cgggttcgc gtcgccgtgc 120
 tccagccacg ccaggacacg gagctcgcca ggatgtaccg cgccctaaac gcctctgacg 180
 tcatggtggg cgtgcacggc gcggccatga cgcacttct gttcatgcgc ccgggctcgg 240
 tgttcattca ggtggtgccg cttggcaccg actgggccc gcagacgtac tacggcgagc 300
 ccgcgcggcg gctgggccta cgccacttgc cgtacagaat cctggcgctc gagagctcga 360
 ttacaggaa gtacgccaac gacgacccgg tgctgactga cccggatac 409

<210> 14276

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-C10

<400> 14276

cccacgcgtc cgccacgcg tccgcccacg cgtccgggtca cttctgtgac ttctgtctgc 60
 gtctcgctct ccggcgactg gtgggcccgc gccaccctaa gttgtggagg ttacattgg 120
 tctcttcgcc ggcgacgagc acccaccagt cttgacaagt tttccaatg gaccaagtac 180
 cgaatggaag gcataagggt tcttttgcca agccaagagt agttgtgctt tcagattctg 240

actctgactc tgaaggTTTT gtagaagagc taactcctgt tcaactcaaag tcaaacggga 300
aggcttcata tgcgagccta aaaactgggtg gaaaggcttc agccttttct aaagggtgagg 360
caagcaaagg aaaagcatat agtagtgaca aagggtggaaa gggttcttca tcacatgcag 420
tgccta 426

<210> 14277

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-C11

<400> 14277

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caccatggcg atctcctcca cggcgatggc cggcaccccc atcaagggtg gctccttcgg 120
cgagggccgc atcaccatgc gcaagaccgt gggcaagccc aagggtggcg cgtccggcag 180
cccctggtag ggccccgacc gcgtcaagta cctcggcccc ttctccggcg agcccccgag 240
ctacctcacc ggcgagtcc cggcgacta cggctgggac accgccgggc tgtccgccga 300
ccccgagacc ttcgccaaga accgcgagct ggaggtgatc cactcccgtt gggccatgct 360
cggcgcgctc ggctgcgtct tccccgagct gctctctcgc aacggcgctc agttcggcga 420
ggcgcgtctgg ttc 433

<210> 14278

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-C12

<400> 14278

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gtgcactgcc ggtgggcat gctcggcgcg ggggtatct tcatcccga gttcctgacc 120
aagatcggcg tctcaacac gcccttctgg tacaccgccg gcgagcagca gtacttcacc 180
gacaccacca cctcttcat catcgagctc atctcatcg gctgggccga gggccgccgt 240
tgggctgaca tcatcaagcc cggaagcgtc aacaccgatc ccatcttccc cagcaacaag 300

ctcaccggca ccgacgtcgg gtaccctggg ggctgtggg ttgaccgct cggctggggc 360
 tccggctcgc cggagaagat caaggagctg cgcaccaagg agatcaagaa cggacgcctc 420
 gccatg 426

<210> 14279
 <211> 363
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-C2

<400> 14279

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 aagtgcattc tttgggaaat ttctgagaaa tttccctac taccaggatt gataacacca 180
 tcgattttcg ctacagtacc tggagcttct tatatgaaag aacaacacat caactatcta 240
 gcaacagcat atgcattcca ttcagatatt tcttttggaa ggaccctgtc ttgttttagt 300
 ggagtcctcg tgatcgttta aagtcgtctg tatacttgta ctgaacttct tgtggtgtta 360
 ctg 363

<210> 14280
 <211> 353
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-C4

<400> 14280

tcgcaagtct ctagattgag tcgtatctat actcttctcc ccccagtcg ggaccccgga 60
 ggagccaagc catggcgtcc acctcctgct gcctcctcca ccagtcaacc gcccgctcgc 120
 gcgcgtcgcc gcgcctggcc gccgccccgc cgcgcagcgc ccagctgctc gtctgcaagg 180
 cccggaagca ggaagccgcc gcggaccaga gcgacgtctc gcgcgcgcgc gcgctcgcgc 240
 tctcgcctg cgtcacggcc gccgcccgcg ccaaggtggg tcccgccgcc gcggcatacg 300
 gagaagcagc caacgtgttc cgcaagccca aggggagcac ggggtacatc gcg 353

<210> 14281

<211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-C6

<400> 14281

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ccactcctgt gccttcaggg aagatcaccg atccagagcg agagatgctg ggtcctgctg 120
ttaccggcac cataaacgca ctcaaggctg tgtctgctgc aaatgctcgt cgagtggctg 180
tcgtttcatc catggttgcc gttgagatca acccgaaaga ctggcccaga gacaagatca 240
aagatgagaa ctgctggtca gataaagagt tctgcaggaa ccaatagaac tgggtattctg 300
tcgccaagat ctcgtcagaa gaggccgcac ttgaatacgc gaagcagacc gggctggatg 360
ttgtgacggg caatccagct gtggtctttg gccctcttct gcagccgacg ctcaacacga 420
gctgcc 426
```

<210> 14282
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-C7

<400> 14282

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aggacgcgtg ggcggacgcg tgggcggacg cgtgggcgga cgcgtggggtt cgtgcttggt 60
tgctctaggg tttttgccac gccgccgccc ctctgcccct tccaccccac cgatatacca 120
agatgacggc gcaggctgcg gaggagctcg ccgccagat cgagcagcag aagctcgagg 180
agcagaagac cgaggcagaa gaggttggtg tggaggagga tgacgaggat gatgaggatg 240
acgatgatga tgacaaggat gatgatgaac tggatggaca agaaggggat gggagtggca 300
agtcgaagca aagcaggagt gagaagaaga gccgcaaggc catgctgaag cttggcatga 360
agcccatcac tgggtgtcagc cgggtcactg tgaagaagag caggataagc tttttgtcat 420
ctcgaagcca gat 433
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<210> 14283
 <211> 401
 <212> DNA

<213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB36-012-Q1-E1-C8

<400> 14283

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tcaccatctg ctctcgcgcc gcagcgtggc ggcggtgcgc ggcggtgcgc gcggtgcgga 120
actacgactc catcccgaag cgggagccct tcagctccag ccgcagcatc ctccacgagt 180
tcctcaggca ggacaagccc ctcatccagc gcaccaagga ccagatcaca gattattgca 240
cggccatcga aggcgatgag tgctgcagct gttgggacgc ttactttgaa ctgaataaac 300
ttgagcaaga gctgcccana gacgaaatcg caaggatggg gaaggactcg gagggtgacg 360
tgaggtacct gatanagagc atccaccatc gctcggatct g 401
```

<210> 14284
 <211> 434
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-012-Q1-E1-C9

<400> 14284

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ctcgcgcctc ccactcctcc ccgccactcg ccgccagcga ccaaccatcg cccgcccagc 60
agcagcacgg cccacgcca ggactcgacc cagcgcgggc tagctaagct cccgcccgca 120
tgatcacggc cctgcaggtc tccggcgggc gctgcccgtc cctgttcgcc cggcgccggc 180
gccgggcggt cgggccgccc caagcggtgg cgtccgacgc cggcgccgcc gccgagggca 240
cggcgagggg ggatggcggg aagggtggccc tgggcgggtc cggcgtctcc gtcaccaagc 300
tcggcgtcgg ggcggtgtcc tggggcgaca ccacctactg gaacgagtcc cgggtgggacg 360
atacgaagct gaaggcagcc aaaggagcgt ttgacgcgag catcgactgc ggaataactt 420
tcttcgacac cgcc 434
```

<210> 14285
 <211> 418
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-012-Q1-E1-D1

<400> 14285

caagaagcgc agcgcccatg gccatgtcca cgcaagcctc cgccgccacg cgccacctgc 60
tggccgcccgc ctgggcgccc ggcggcgaagc cgcggcagct gagctcgcag ctccgcgtgc 120
cgtcgtcgtc ctcccgcggg ccggccccgc tccgcgcgtc caccgaggag gcggtggagg 180
cgcccaaggg gttcgtggcc ccgcagctgg accccagcac gccgtccccg atcttcggcg 240
gcagcacggg cgggctgctc cgcaaggcgc aggtggagga gttctacgtc atcacgtgga 300
cgtccccaag gagcaggtgt tcgagatgcc accggcggcg ccccatcatc gggagggccc 360
aactcttgag ctgggccagg gacatgctgg gctcggacag gtgcgctcag taagatac 418

<210> 14286

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-D10

<400> 14286

gttaactagc tacctaatta ccagctgcca gccatcttgt gtcagcacac tgcagtgttc 60
gtttctgtcg ggaagagaga gaagaggcag cgacgatgga tgagcctccg ccacagagcg 120
acgacgaccg gaagctgtcg gccatggagc acgtcaagaa acgccacgag gagaagggat 180
tcctctatgc ctgcgccttc atgttctgct gctgcttctg ctgctacgag gcctgcgagc 240
actgcctgga gtgcttctgc tgctgcggca agaaggacga gtgattaagg ccggtccaac 300
cagttccgcc cgcccaccaa tgatgaatga tcggtttgta attcgtcgtg gatttgattt 360
gtttcggttg tgatttgtga agaactgcga tcaatctgga actgttcgtc gtgatagaac 420
atgcatgttg 430

<210> 14287

<211> 401

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-012-Q1-E1-D2

<400> 14287

cgctcctcg tctccacca ccgcgcac gccgctccc aggaatgggc agcgggcgtc 60
gtcctccttc ctgcgcgga agacgtgct gagacaggcc gaggcggccc ggccgtcgtt 120
cgccgtgctc gccgcggcg accccaacag gccgatctgg tcccccgga gcacccctcc 180
gccgtggctc gacggcagcc tccccggga cttcggcttt gatccctgng gcctcggatc 240
tgacccggag agcctgcggt ggaacgtgca ggcggagctg gtgcactgcc ggtgggcgat 300
gctcggcgcg gcgggcatct tcatncggg agttcctgac caagatcggc ggtcctcaac 360
acgccccttc ctggtacaaa cgccggcgaa gcagcaagta c 401

<210> 14288

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-D4

<400> 14288

catccgcgcc gccacagccg gccgcgcctc cccgatcgag atccaggaga tatgcctcgt 60
tatgatgatc gccatgggaa tacacgcttg tatgttgga gattggcccc tcgcacccgt 120
tcccgcgacc tagaatatct tttcagcaaa tatggaagaa tacgtgaagt ggagttgaag 180
cgtgactatg cattcattga attcagtac ccccgatgat ctgatgatgc gcagtacaac 240
ctagatggca aggaagtcga tggaagccgt attattgttg aatttgctaa aggagttcct 300
cgtggttctg ggggttcacg tgagtacatg ggaagaggac ctccaccagg aacaggtcgt 360
tgttttaact gtgggatgga tgggcactgg 390

<210> 14289

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-012-Q1-E1-D5

<400> 14289

cccacgcgtc cggccgcac gccgcgcgc gaagcgcctc cctcgatcca gatccaggag 60
atatgcctcg caatgatgat cgctatggga atacacgctt gtatgttgga agattgtctc 120
ccgcacccg ttctcgtgac ctagaatacc ttttcagcaa atatgggaga attcgagaag 180

tggagttgaa gcgtgactat gcattcattg aattcagtga cccccgtgat gctgatgatg 240
 cacagtacaa cctagatggc agggacgtcg atggaagccg cattattgtt gaatttgcta 300
 aaggggttcc tcgtggttct ggtgggttcac gtgattacaa cggaagagga cctccaccag 360
 gaacaggccg ttgttttaac tgtggagttg atggtcactg ngcaagagac tgtcaggctg 420
 gtgactgga 429

<210> 14290

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-D6

<400> 14290

cccacgcgta cgcccacgcg tccgcccacg cgtccgcca cgcgctctgcc aatacaggga 60
 tcgccatgtc cgactcggat gagcaccact tcgaatccat ggccgacgct ggggcgtcca 120
 agagctaccc gcaccatgct ggcaccgtcc gtatgaaccg cttcatcgac atcacgaacc 180
 gtccctgcaa ggttgtagag gtttctacct ccattactgg taagcatggc cagccagat 240
 gccactttgt cgccatagac atattaagtg ggaaaaagct tgaagatatt gttccttcat 300
 cagacaggct gtgacattcc aca 323

<210> 14291

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-D7

<400> 14291

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 agcaccatgg ccctctcttc cacggccttc gccggcaagg ccgtgaacgt gccgtcgtcg 120
 tccgccttcg gcgaggcccg cgtgacgatg cgcaagacgg cggggaaggc caagccggcg 180
 gcggcgctcc ggagcccgtg gtacggcccc gaccgcgtgc tgtacctggg cccactgtcc 240
 ggcgagccgc cgagctacct gacgggagag ttcccgggag actacggctg ggacaccgcg 300
 gggctgtcgg cggacccgga gacgttcgcc aagaaccggg agctggaggt gatccactca 360

cgctgggcca tgctgggcgc gctcggctgc gtcttcccgg agctgctcgc ccgcaacggc 420
gtc 423

<210> 14292

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-D8

<400> 14292

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ccctccccca gcaacgatcg cgacgaccca aaccggcaag ggtgaccagc ggctggccgc 120
cgccgcggca gacgagtcct atgggagaca acaagtctcc gctgagcctg agcccgatgg 180
gcgggcgcca ccgggaccgg gagctcctca tcccggcttc cgccggcgccg tcggcgccccg 240
gcgtcgatga cgagggcgct gacagggcct cctccgcttc cgccggcgctc tcctcctccg 300
gccgcgaggc tttccataag gtcgtccgca gttgggcttc aaagaagttc atgactggat 360
gtgtaattct cttccccata gcaataacgt tctacatcac ctggtggttc attcattttg 420
ttgatggatt c 431

<210> 14293

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-D9

<400> 14293

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ggaagaagag agcagaggag gatggctcgt acgaagcaga ccgcccgcaa gtccacggga 120
ggcaaggccc cccgcaagca gctcgccacc aaggcgccga ggaagtcggc gccgacgacc 180
ggcgggcgtga agaagcccca caggtacagg cccggaaccg tggcgctgcg cgagatccgc 240
aagtaccaga agagcacgga gctgctgatc cgcaagctgc ccttccagcg cctggtgcgc 300
gagatcgcg aggacttcaa gacagacctc cggttccaga gccacgccgt gctggcgctc 360
caggaggccg ccgaggccta cctcgctcgg ctcttcgagg acaccaacct ctgcgccatc 420

cacgctaagc g

431

<210> 14294

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-E10

<400> 14294

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cgtggccgcc caatttgagg attacaagga agcagcgagg ttgagggact cgctgaggtc 120
cttcgaggag aaggagcccc tgttgtgcct ccgccggttg atgaagaagg ccattgagga 180
ggagagggttt gaggatgctg ctaaatacag agatgaatta aagattttgg ctccacactc 240
cctcctcaaa tgttctagcg atgcaactac tttggggata agagttcaag tcaggagtgt 300
ctatattgaa agccggagcc agccattgaa agggcaattc ttttttgctt atagaattag 360
aattacgaat agttctcagc gccctgttca gcttctcaaa aggcaactgga ttgttacaga 420
tggaatgg 429

<210> 14295

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-E11

<400> 14295

cccggggtca cgcacgcgtc cgcaaattta cgggctcaaa caaagtgtga tagtgaaagt 60
cattttgctt ccagcttaag aaccaagcca agaaaacagt tatcaactgt gacgccacac 120
tcaaaagctt gtttggtgag agggataagg ttgggatgct ggagatctct aagcttttga 180
gccgtggctt ccgaaaatc tccaagcttt tgtgggtccat ggagccaggg atggctcttt 240
ggtaaaagac ttcgttgtgg atggcctctt ttatgggtcca tgttaagtcc caagtccac 300
taggtgggta agcagaaaaa tcttgtgatg gcattaagac tttcagactt tgtttttggg 360
tctgatgcat gtaaaaagga ttcccagtggt ttctgttgct cttgcgatcc tgtgaggaca 420
catatgacag aaatatttag tttgtt 446

<210> 14296
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB36-012-Q1-E1-E4

<400> 14296

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 acatcacaaa agtctcatcc gtagtcataa taagacacat ctcatcatcc agtactaata 120
 agagacaata tctcatacat aatcataata aacgtctcaa gtatcagaac acaataacat 180
 ggaagctcat ggttgccgat caccatcggg ttacagtgc gagtgatggt cgatacctcc 240
 actagtgaag agggTTTTga caaagtctaa ctctgtcttct cgttcttgcg ttggcaagggt 300
 agctggagggt gtctaataata tatgtacaaa tgacatttgc tgagttacat tattgagagt 360
 gctcgtactc tttttcccaa ganacacaag atcagcaata gcctacagac agttttatt 418

<210> 14297
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-012-Q1-E1-E5

<400> 14297

 cggacgcgtg ggcgcgcccc cagacaogca tgcacagcc acacgcgtac acccgtagac 60
 cgtacgcagc catggcatca gtaggcttcg gcacggtcgc gccggccgtg gcatcatcgc 120
 cggcggccag gacgacgagc gtggggccgc cctccgcggt gcacgtccct gcggcgacga 180
 ccaaggtcgt cgcggcggcg gcgggtaagc ggggtggagga gaagggcctg ttcgacacca 240
 tcttcggcgc gctgtacaag gaggagcagc tgetggagac ggaccccgtc ctgaacaagg 300
 tggggagcaa gggcaaggcc gccgcgcgcc cggcgcccaa gaaagccgct gaagagggcg 360
 gcaacggcgg gctcagcctc ggcggttct tctccaggcc caagaaagg tgaacgtacg 420
 tacgttatg 429

<210> 14298

<211> 430
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-012-Q1-E1-E6

 <400> 14298

 gtcggtattg ccttgcgaag agctttactt ggagaaatag aaggaacatg tatcacacgc 60
 gccaaatttg ggaacgtgcc acatgaatat tccacaatag taggtattga agaatccata 120
 caagaaattt tactaaattt gaaagaaatt gtattgagaa gtaatctcta tggagttaga 180
 gacgcacaa tttgctcaa aggtccataga tacataaccg ctcaagatat aatcttaccg 240
 ccttccgtag aaatcgttga tacgacacaa cctatagcta acttgagaga acccgttgat 300
 ttctgtattg agttacagat caagagagat cgcgcatatc atacggaact cagaaagaac 360
 tctcaagatg gaagttatcc tatagatgct gtattcatgc ctgttcgaaa tgtgaattat 420
 agtaattttt 430

<210> 14299
 <211> 356
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-012-Q1-E1-E8

 <400> 14299

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 ggcagcgcgc cgcggcagca cacggggaga gagagaggca gagcgagcga gcgagacagc 120
 gctgggtcatg gcgtcactgt ctgtcgccgc cgtggcggcc accatatcga tgccagtcag 180
 cagcgggtgtg agagggcgcc gtctcatggt cgcgtccatg gccaccaga acggccacaa 240
 gccgacgcc aagatcgtct ccggcacgac aagatccggc acgatgacgg tgttcccggg 300
 gggcgagccg ggcccgcggc cggccacgac gagcggcaga gcgccggtta agctgc 356

<210> 14300
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-012-Q1-E1-F1

<400> 14300

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agcgcgcgtt cgcggcggcg gcggcgaggg ggcggggcgg tggacgaccc caggtcacga 180

ggagcgcgcc aaggggtacc tcttcaactg gccgcgcgcg cctccggggg aatctcgcaa 240

gtgggaggat tgggagctgc cctgctaagt gacctccttc ctcacgtcg tcatcctcgg 300

cgtcggcctc aacgcgaagc ccgaccttac aatcgagacg tgggcgcacc agaaggcgcg 360

cgagcgcctc cagcagcagg agctcgccgc tgcgcacacc caagccgagt gatccgcgcg 420

tctc 424

<210> 14301

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-F10

<400> 14301

acaggctccga gactcgcggg tcgacgcaag cctctaaaca gaggcctata agcgcagaag 60

gcagtcgcgg acaggaggaa gaggaagaag aagcggcagc gagcgaggat gccgtgcctg 120

aacgtgtcga ccaacgtgaa cctggagggg gtggacacct ccgccatcct cgccgaagcc 180

tccaagtccg tcgccaacat catcggcaag cccgaggcct acgtgatggg tgttctcaag 240

ggttcgggtg cttatggcatt tggaggtacc caggagccag cagcttacgg tgagctgggt 300

tccatcggag gcctgaacct tgatgtgaac aagaagctta gtgctggcat cgcttctatc 360

ctggagtcaa agctgtctgt tcccaagtca cgcttctacc tcaagttcta tgactcgaag 420

cgctcggact tcggttggaa cggctccacc ttctagact 459

<210> 14302

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-F11

<400> 14302

ccgtatagag aggggcagtc catcggcac c atcgctgatg gcgaagacaa gaacggcaag 60
ccgcacaagc tcaggctata ctccatcgcc agcagcgccc tcggagattt cggcgactcc 120
aagacggtat cgctttgcgt gaagaggcta gtctacacca acgatcaggg ggagattgtc 180
aaaggagtct gctcaaaactt cctgtgtgac ttgaaacctg gcgccgatgt gaagatcaca 240
gggccagtgg gcaaggagat gtcacatgccc aaagacccca atgcaacagt catcatgctc 300
gcaacggtga ccggtattgc tccgttccgc tcttcttctt ggaagatgtt cctggaggag 360
cacgaggact acaagttcag cggccttgcg tggctgttct tgggagtccc gacgagcgac 420
agc 423

<210> 14303

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-F2

<400> 14303

caaatcctcc acgacacgac acctcgctga ggacctcgag ggcacagtt atcgacggcg 60
tgaactccag cgtcttccgg ctcaagctcg ccgcagtatt gcggcacggc tcggccggcg 120
catcgcccgt taaccgggtg cagctggacg cggccgaggg gtgccgcacc gcacttcacg 180
acctggccgc cgtcttctcc gtcacagac acgacggcgg tcggccaagg ccgaaactct 240
tcaagtggta cgatctgaga gatcacctgc aacatggact ccttctctaa cgtcatgatg 300
gtcagcattg gcgtcaactt tgcgcgcgcc cataccgtcg agttctggac ctgcca 356

<210> 14304

<211> 106

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-F3

<400> 14304

gacgcattac gagccattgc taaaagtggg gtacgggttaa gttgtatacg cgatgtaaca 60
cctatgccgc ataatggatg tcgacctcct aaaaaaagac gtctgt 106

<210> 14305

<211> 190
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-012-Q1-E1-F4

 <400> 14305

 atccccgtat ggggatttat atatatctgt agctgaaggc cttcagcaaa ccgttgttgt 60
 atacttgtgt gttgttactt aacagcgtgt gtagtgatta gcactgcaca ctccctgatt 120
 gtaccatggt atattgaatg tttatactgc tggaagaaaa aaagggggac cttgtgatgg 180
 tcagatgttt 190

<210> 14306
 <211> 416
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-012-Q1-E1-F8

 <400> 14306

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 accacatcat gcgaaggaca agagccgagt tgatcccaaa atgatgctag tgaacgaacc 120
 taaggatgga tgatctgata gagggccaga atgggagatg ctcaccaagt ggtcgtcaat 180
 taacaacact aacttagtgt tatcccagggt tataattttg ttctgttatg gatgctgcta 240
 agtgccggtg ggctcagtct tcttatataa gtatatccca tctttagctt ctttattgag 300
 gattgtcact taagctagca tgtatttgaa aacctataaa tattttatac attttaaatt 360
 gtaatttttt ttgaatcact ttcttttgta atcactcgga tgatatatat tgtaat 416

<210> 14307
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-012-Q1-E1-F9

 <400> 14307

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 aagcatattc gagggaaca accagattca gttccttaga tttcacgcgc ttgtgctttg 120

agccgtaggc aactgcaatc ggtttcttga acagcgaagc atcggaggtc tggtaactgg 180
ccagaaaata ggtatgccgg agcagaacta ttgtgtatgt gtatcttggt tagaatggct 240
tccctgcagc ttccatcatc tcctttgcac ggatcagctt ctcgatttgc ctcacgattt 300
caaggaccat gtctcaagc gtcaccaagt caatgctact gtacccccgc tgagaagcca 360
cattttgtac tgaaacagta atatcagaaa ccccatagcg ctctttcagt tcatcatacc 420
gctga 425

<210> 14308

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-G1

<400> 14308

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tccgtggcgc tctcggcgg cgcgcgctc cccgcgcgc cgcgctccgc cctcctccct 120
cggcgcagcg tctgccagct tcgcttccaa gatgcaccga ggctctccct gctccgtgcg 180
aaggccgctt ccgaggacac atcggcctcc ggcgacgagt tgatcgagga cctcaaagcg 240
aagtgggacg ccgttgagga caagcccacc gtctcttctg acggggggcg cgccgtcgtc 300
gccctatggc tgacgtccgt ggtcgtgggc gccatcaacg ccgtgccgct gctccccaa 360
attctggagc tccttgggct cggctacacc ggctggttcg tgtaccgaa cttcccccta 420
aggaaag 427

<210> 14309

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-G11

<400> 14309

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ccgcgcgcgc cgccgcgcgc gctatgcctc gccgcagctc aggaaggtct gccccacgcc 120
cagctacccg tgctgctcca gtgaggaacc cgccacagcc agcacgccag gctcctcctc 180

cagctcctgt tcgagatggg ggtgggtcca tgtttggagg aattgggtcc accattgctc 240
aaggtatggc gtttggcacg ggtagtgcca tggcacacag ggctgttgat gctgtattag 300
gtccccggac cattcagcat gagactgttg cctcagaagc tgctgctgct gccctgccc 360
ctccagtgat gaatgctgac gcttgacgca tccattctaa ggctttccaa gattgtctca 420
acaact 426

<210> 14310
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-G12

<400> 14310

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gtgatccaag tcattcacag aggcattccg tttgtcgccg gcacgcagac catcaattcc 120
ctggccttcg tgtttgatgg catcaacttt ggagcgtcag actacagata ctctgcttac 180
tccatggttg ctgttgcgtc tgtgtcgata ccgtgcctgc tgtaccttc tgcgcataac 240
ggattcatcg gtatatggat cgcattgacg atctacatga gtctgaggac catagctagc 300
acctggagga tgggggcagc gaggggacca tggacgtttc tccggaactg atgatggatt 360
ggcttggaac tgatgatctg cggcacactg ctgacagata aggctgcgcc gcgctgcgcc 420
ggcgcctct 429

<210> 14311
<211> 424
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-012-Q1-E1-G2

<400> 14311

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cgtcaccgcc cgcgccccgg tcgcagccct gcgcccgtcg tcgtcgtcgg ccttccttgg 120
ccactctagc cgctcgggcc gcaactgtac cgcgtcgccg acgaggcgga gcctcaaggc 180
ggaggccaag ggcgagtggc tcccgggcct tccctcccc gcctacctcg acggcagcct 240

gccgggtgac aatggcttcg acccgttggg cctggcggat gaccocggaga acctgacgtg 300
gtacgtgcag gcgagctgg tgaacgggcg gtgggcgatg ctgggcgtgg ccgggatgct 360
gatcccggag gtgctgacn aagccgggct gatcaacgcg ccgcagtggc acgacgccgg 420
caag 424

<210> 14312
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-G4

<400> 14312

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agcttggtac gagaggaggc aaatgaggaa gatatactcg ccgcttctgg aaggaatctt 120
ggctttctac cttggcttcg aatggatcca gaccgacaat atcctggcac ctatgatcac 180
ccacggcata tactccactg ttgttcttgg ccatgggctc tggaagatcc acgaccaccg 240
gagaaggcta cggcagcgga ttcagaaggc caggagtga gggagtagct ctgcagacga 300
cacattgtaa ctgcagcatg tagatcggcg tgggtctactg ctggatagct agctgctgat 360
tgcacgcgcg tactgggtga tcgatcgatc taccgatcag tcagaagacc agag 414

<210> 14313
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-G6

<400> 14313

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tgcccataca tctgtggcag gcaccttgac catggtgttc tccttggttg atatggtgct 120
tctggtttcg ccccatcgcg cctgaaggac aagccttact ggatcatcaa gaactcgtgg 180
ggcgagaact ggggggagaa cggatactac aagatatgca ggggttccaa cgttcgcaac 240
aagtgcggcg tcgattccat ggtctctacc gtgtccgcag tccacgcctc gaaggagtag 300
actctggtca gcggtgataa tcgtgattcc atatattgta gaactataat ccctgctagt 360

aatccatttg tgctgtttat gtatcgaagg cagcaaagat gtgtgaagcg gcaatgggat 420
gcttgctgt 429

<210> 14314

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-G7

<400> 14314

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gttggcacia aagaaatcca atcaaagatg agggatgggg gcta^tgacca gaagg^tgaat 120
gaaactgtca gtgttgttgc caataaaact gcagagattg gaagcaggac ttgggggatc 180
atgagaggag ttatggcgct ggcctcacia aaggtagagg aatatgcaa ggaaggagga 240
gtgggtggct ggggagagga ttggcaacac agcgagcaga aaagtgagcc ttaccaaagg 300
tttgagcatg agaccaacgg caacagttgg aattcctccc aaaattcttc atcgaagaac 360
aattccagtt cttgggacga ctgggacgac ccaggcaaga cagatgagcc tg 412

<210> 14315

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-G8

<400> 14315

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ccaagcgagc gcctatcaat ggcacgctcc tcaagcttct ctttccagtc gccctgtgcc 120
atggtattgg tcacatcact agcaatgtgt ccttcgctgc tgttgagtc tcatttgctc 180
acactatcaa agctctggag cccttcttca ggcgagcggc tactcagttt atccttggac 240
agcaagttcc cttctctctg tggctttctc ttgccctgt ggtcattggg gtttcaatgg 300
catcccttac tgagctttca ttcaactgga ctggcttcat caatgccatg atatcaaaca 360
tctcattcac ttacaggagc atttattcca agaaagctat gactgacatg gatagcaaca 420
acgtgtatgc 430

<210> 14316
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB36-012-Q1-E1-H10

 <400> 14316

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 tgcttgctgc atcgaggcgg tagattgacc atccaggagt gtctgctgca gtgcgagcaa 120
 aaccctttgg accacctgtc cttcccaata atcagcacag cgatagagta cgatccattc 180
 tcatccctca aggagcaagg gcacggagta acggctcgctc gcaccaggat cgaaggaggc 240
 gcgagggccg tcaggacgaa cggcacactc gcgctgcgcc atgtgcgggc catctattcc 300
 cgcagctctg ttttcttctg gttcgaagta ngagagaaag tagaagcgcc tgtacactag 360
 caaaaagccc gtgttagttc ttgtatttca gtgttggtat caccctagcg tgcgtttggt 420
 gaact 425

<210> 14317
 <211> 400
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-012-Q1-E1-H3

 <400> 14317

gaggcacaat aaatggcgtc aaagccacgg gccttcgcga aggtcttctt ccccgcgctc 60
 ccgccgccgc cctctctcac tgcccccgtc ttctcgcgcc ggccgacgaa tcgggggtgcc 120
 ggcgcggcgg cgatgtcggc tgcggcggct gcgccagcgc aggtctcaag gaagtgggag 180
 ggactagtgg acgaggtgct cgagagggaa gtgctgggag cgtgcctgga ccaggcccc 240
 gagcgccgcc gcatccgcga ggctttcaag gacgttcagc tcagcatcga ccattgcctc 300
 ttcaagggac aatatagtgg catcagaaca aaggagtcac gtgagcataa ctctaagggt 360
 gtggagattt tctcaaaatg ctggtttccg gagaatcgtc 400

<210> 14318

<211> 432
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-012-Q1-E1-H4
 <400> 14318

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 gtcgctggtg tgccctcgtg agcccatcct gtccaagggc aggaagaaga tcgtcaagcg 120
 gggctccttc aacaccttct acgctaagga gtaccgcgcc acgctcgagt tctactgggc 180
 gcccttcctc gtcgagtcca actctgacaa cccaacttc cacagcatca aggaacggat 240
 catcagtccc gagcggatcg aggcgcacgc caagcactgg aaggatgctg actacctcat 300
 cttcaacacc tacatctggt ggatgaacaa cgccgacatc aaagtcagga gacccaattc 360
 gaggtactgg tctgacaacg atgagggtcc caggattgag gcgtatggcc gtgtgttcaa 420
 gacatgggtc ga 432

<210> 14319
 <211> 431
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-012-Q1-E1-H6
 <400> 14319

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 ggatgtcttg caactgcgga tcaagctgcg gctgaggctc aagctgcaag tgcggcaaga 120
 agtaccctga cctggaggag acgagcaccg ccgcgcaggc caccgtcgtc ctgggcgtgg 180
 ccccgagagaa gaaggccgcg cccgagttcg tcgaggccgc ggcggagtcc ggcgaggccg 240
 cccacggctg cagctgcggt ggcaactgca agtgcgaccc ctgcaactgc tgatcacatc 300
 gatcgacgac catggatatg attattatct atctagcttg tggtggtggt tgaacaataa 360
 taagcgacgc cgagctggct gccatacata ggtattgtgt ggtgtgtgtg agagagagag 420
 aaacacagtt c 431

<210> 14320
 <211> 404
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-H7

<400> 14320

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aggggtttatt acatcattag taatattcaa gagttagtaa ccgctctgag ccaagagcat 120

ccgggtgggtgc tgatgttctg ggccgactgg aaccagccaa gcaaggccac gtactgggat 180

ctggccatcg ctaaaaagga tgaggccgta ttctgccagc tggactttga taagtttaaa 240

gatgtcgtag agaagttcag agtgaagggt ctgccgacgt tcctcctgat caaggagggc 300

caggagcagc gcagggtcgt ccgtgccaaag gtcgaggagc tcaacatggc attatcagat 360

atcggataat ctatggaact atagcgctca cattctaact tcat 404

<210> 14321

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-012-Q1-E1-H8

<400> 14321

agcacaggca gcacactcag ctatccagca aaagagatcg agaggcagga gtcattggcca 60

ccgtcagcgc cgcctgtgtg accaccatcg ttgcccgcgc cgcgatcgcc agggccaatg 120

ctctagggct gcctgcgctg agggcgagga gcgagagggt gcggtgcagc tacgccaagg 180

acgcggcccc agtcagcacc aaggcgcgag gcgcgtcgct gctcgccgca gcggcgcgcg 240

tgaccgcgtc ggcgggggccc gcgctggcgc tcgtggacga gcgcatgtcc acggagggca 300

ccgggctgag cctcgggctc agcaacaacc tgctgggggtg gatcctcctg ngggtcttcg 360

gcctcatctg gtccctctac accatctaca cctctgacct cgacgaggac gaggagtccg 420

gtggcctct 429

<210> 14322

<211> 239

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-013-Q1-E1-A12

<400> 14322

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gaggcaccag aaggtcattt tttgtgattg ccatggagcc gacgaggttt ctgcgcgacc 120
ggcgggacca acgcgganga agagcagagc gacagccagc tcgagcatga gcaggaggtc 180
ccctgcgtgc ccgacatctt cgtgcaaaat gtgcccgtgt cccgccgctc ttctcccgc 239

<210> 14323

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-A4

<400> 14323

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acgtgaagac ggccgccacg gacgggtacg acgccgtcca ggtcgggtac cacggcgtgc 120
gcgatgacaa gctcagccgc ccggagctgg gccacctgtg caaggccggc gccccgccgc 180
tgcgccacct gcacgagttc cggctcaccg ccgtcgacac cttcaagccc ggccagcccc 240
tcgacttcgc cgacctcttc aaggagggcg acctcatcga cgtcgccggc aactccat 298

<210> 14324

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-A6

<400> 14324

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gccgcctccg tccaccgccg cggcagttc ctccattatc cgcccgacgc cgcctccggc 120
cgtatccttc caccctgtac cctcccga gatcaggcgg cgtcatcag ctggcgccgc 180
agccgcttcc cggctcgccg tggcgcgcg cgcgcctcg ggggcccccc ggccggcgcg 240
acgccgagac ggtgttcttc gacggcgcg cgcactacgg gcacctggcg gggaaactgc 300
tcctggggcc gacctgctg tggctgccgc tgacgtggc ggccgtgtcg cgcgcgttca 360

tcctgcggta ccgcttcacc tcgcggcgcg tgacgggtggt ctgcgggctc tccggcgccg 420
accgcaccga acttcctac tcgtccgt 448

<210> 14325
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-A8

<400> 14325

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acatggccgc cgccaccatg gctctcacct cccgcgcgct cgtcggcaag cgggcgacca 120
gcaccaggga cgtcttcggc gagggggcgca tcaccatgcy caagactgct ggcaagccca 180
agccagcggc gtctggcagc ccctggtacg gggccgaccg cgtcctgtac ctgcgcccgc 240
tgtccggcca gcccccaagc tacctgaccg gcgagttccc cggcgactac ggctgggaca 300
ccgcgggggt gtccgccgac ccggagactt tcgccaagaa ccgcgagctg gaggtgatcc 360
actgccgctg gggcatgctg agcgcgctcg ggtgcgtgtt ccggagctgc tcgcccgc 418

<210> 14326
<211> 400
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB36-013-Q1-E1-A9

<400> 14326

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ctacaggcgc tccgcttcca cagacggaca gcttgggctc gacggatgag catgtgtgag 120
aaagatcaga atttgccatg gggatacgac ctgttccgcy acccttttgc tcctcccaac 180
gggtttttca ttttccatgt gacaagtcac ggggcaggaa gcacccatga gcacgagcac 240
gagacagtat atgtagaacc gtctagttcc tctccagaca caggtggtga cggttgtttt 300
gagatggagg aggaagtang gaagagggtt taccctatgg tccagttcc ccatgtcccc 360
aaaattaatg gagaaatccc atcaattgat gaagccacta 400

<210> 14327
 <211> 485
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-013-Q1-E1-B1

 <400> 14327

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 gtaggttcag ccgcgccgac ctgttgagg cgagcgtgga gcttcgtcat cagccctcg 120
 gctacgtcaa gtccacgggc ctccggtgcg ctgtcaagct cggcgtcgcc aatgccatct 180
 agcgcctgg cggcatggcc tccgtcgagg acctgctcac cgagctctct ctggacgcat 240
 gcagactccg ctgcctgcac agcgtcatgc gcgcgtcgc gcggttgggc gtcttcaagg 300
 acgggagcga cggcgagtac cggctcactg ccgtttcctc tctgctcgtg gacgacgaca 360
 gcagcgtccg acgtagcctc cggtcgatca cgctcttgta cctggagcct gcattcatgg 420
 ggccagtgt caacctggca gattggggcc ttgctggtgt caatggtagc caagacgaca 480
 acaac 485

<210> 14328
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB36-013-Q1-E1-B10

 <400> 14328

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 gaccagcgac accctgctgt acaaggagga gctggagaag atgaaggaga tggcgccgga 120
 caacttccg ctggacttcg cggtgagccg agagcagacg aacgcggccg gggagaagat 180
 gtacatccag acgcgcatgg cggagtacaa ggangagctg tgggagctgc tcangaaaga 240
 caacacctac gtctaaatgt gcgggctcaa aggcattggag aagggcattcc acgacatcat 300
 gctcgacctc gcagccaaag acgggatcaa ctggttgac tacaagaagc agctcaagaa 360
 gagcgagcaa tgggacgtcg aagtctactg atgatgattc ttcattgtaa tgttcagctc 420
 aagcaatctg gtggtga 437

<210> 14329
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-B11

<400> 14329

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acgtgtcgac caacgtgaac ctggaggggg tggacacctc cgccatcctc gccgaagcct 120
ccaagtccgt cgccaacatc atcggcaagc ccgaggccta catcatggct gttcacaagg 180
gttcggtgcc tacggcattt ggaggtaccc aggagccatc atcttactgt gagctggtgt 240
ccatcggaag cctgaaacct gatgtcacca agacacttag tactggcatc acttctaccc 300
tggagtcctc gctgtctgtg cccaagtcac gtttctacct caagttctat gactccgaac 360
gct 363

<210> 14330
<211> 209
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-B2

<400> 14330

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tggcagccat cgccttgaac ctgctgttgc tgctggagct cttgccatgg taagtcacgg 120
acgctgagac ctgccgcttg ttgagcttct tcccgatgaa gctgctcctg gtctgcgtgg 180
aggacggatc tccgactgtg gatgagaat 209

<210> 14331
<211> 199
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-B4

<400> 14331

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gggtcccacc cacaagagag gcatggcggc cacatcgccc ctgaagagca gccttctcct 120
cccgtctacc atctccgact tcagtggcgc agccgcagcc gtctccatct caacggcaga 180
gaggacatca cggggggca 199

<210> 14332
<211> 450
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB36-013-Q1-E1-B7

<400> 14332

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gaagccgtcc atggtgacgc' ccggcgcgga ggccaaggac agggccacc^c cggagcaggt 120
ggccgcgtac accctcaagc tctccaccg ccggatcccc ccctccgtgc ccgggatcat 180
gttctctctcc ggcggggcagt cggaggtgga ggcgacgcag aacctcaacg ccatgaacca 240
ggggcccaac ccgtggcacg tgccttctc ctacgcgcgg gcgctgcaga acacctgcct 300
caagacctgc ggcggccagc cggacaaggt caaggcngcg caggacgcgc tgctgctgcg 360
cgccaaggcc aactccctgg cgcagctcgg caagtacacc tccgacggcg aggccgccga 420
ggccaagagg gaatgtncgt caagaactac 450

<210> 14333
<211> 205
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-B8

<400> 14333

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aaagcccata atcccaacat aattgactat gcggcagtaa aatctcatat cagaacttga 120
taacttctat tgcacgccat tgtaatcgct taatttaatc acgcttcaaa ctacataacc 180
agaagcaagt acaaaatcgt cgtcg 205

<210> 14334
<211> 214

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB36-013-Q1-E1-B9

 <400> 14334

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 gttttgtgga cgggcgatgg cagcggctga tgtggagtat cggtgcttcg tcggcggact 120
 tgcctgggcc accagcaacg agtcgctgga gaatgccttc gcctcctacg gcgagatcct 180
 cgactccaag gtcatcaccg accgggagac cggg 214

<210> 14335
 <211> 420
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB36-013-Q1-E1-C10

 <400> 14335

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 aacaagcttg aagaacaaga gcggggaaag aagtgaacag gaaccactgg ttgacaggaa 120
 acagagcagg tgtacagaag tggcggttgt gcggcggacg gacatcaact aacactggag 180
 gctggatcca ctgaaagttc gatgccaaac tcatgtaaat ggatctggct tccttttggg 240
 tgcagtcagt tttgtgtagg caccattaga gcctgtgaa aaatagaagc actcacgcat 300
 ggtagcagct tgttattgtt gttagctgct gacgctttga ggcattgtcaa cangtagaga 360
 tggattgcaa atcctaata atgcatatta ctttgtgtgt gtgtgtgtgt gtgtgtgtgt 420

<210> 14336
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-013-Q1-E1-C11

 <400> 14336

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 aggcgccaac ctgggcggac cagtgggcct ccggcgaggg cgacgggagc agcgcggaac 120

gcaaggcggc cggttaagagg acggtggccg gcaacgtgaa ggcggcggcg tcggagggac 180
tcgtcaaggc caaggcggcg gcgctggtcg gagcgacaaa gctcaagacc gggacgagct 240
cgggcatcaa gtgggtcagg gagcagtacc agaagaagag gacgtccaag tgagctacgc 300
tgcgtcaatt gtgatggagg agcactgcta ctctctgttc tgatctttct tagtgaagcc 360
cattagagca acagggtttt ctcttgggtg gagac 395

<210> 14337

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-C2

<400> 14337

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tgaagacacg aggcttgccg tggcgaacgg cgcggcgggg atcatcgtgt cgaaccacgg 120
cgcgcggcag ctggactacg tgccggcgac catcagcgcg ctggacgagg tcgtgaaggc 180
cgcccggggc cagctccccg tgttcgtcga cgggtggcgtc cgccgcggca ccgacgtctt 240
caaggcgctc gcgctcggcg ccgcccggcg attcgtcgga aggccgggtg gtgttctccc 300
tgccggtggc 310

<210> 14338

<211> 416

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-013-Q1-E1-C5

<400> 14338

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gatccatcct atacacaaga tttagaccac taaaaaaca acaagtgcc caaaagagaa 120
agtaagcaag agagagctac tcatttgagt ttagcactag tgctttgtga gattcattga 180
gagatagtgt gtgtacata tttgtgttca tttgtgcatg gagttttgac tcccattgaa 240
cttctccga agttttggag gccttgtaaa agctagcaac accaaagagt gtggtggtcc 300

ttgtggggtc ttaagtgatc cttgagaaga agaagagctc gctgatcttg agtgatcgg 360
ggagagaggg aaagggttga naaaganccg tccttagtgg actcctcaac ggggac 416

<210> 14339
<211> 303
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-C6

<400> 14339

gctaggtcag catatgatag cggctctaga gaccaccctt cagctgacaa ctatggtgga 60
atggccagtg cttatggaaa ctacaggggt ggtggatttg gtccttatag gagcgataca 120
ggatttggtg ctaggctcag cagctatggt ggggtaggtg attttggtgg tgcatatggt 180
cgttactatg caggattagg agggggatat ggagccgctg cttcgtttgg ttatcctggt 240
cgctttgggt tatatggagg aggttttgggt ggatcttatg ctggtgctga cttaatgggc 300
tat 303

<210> 14340
<211> 301
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-C7

<400> 14340

cagcaatggc gcatcccatg cctcccctct cagcatcaca gagcacaatc accaccgttc 60
tgaagatcct tccaaaacct cctgctgctc cggagagcag aagcaataat tgtgcttttg 120
gggccaaatt cgacagtagg agggcacttc tatgcggctt ggtcgctgct gctgctgctg 180
ctggcaccat gctgggcgct gacatcgctg gtgctgcttc gaagaggcgg cctccaccgc 240
cagcgccggc agaggcgaag aaagaccgaa cgtcagcgga gtgcaggcta aagtgcttgc 300
t 301

<210> 14341
<211> 283
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB36-013-Q1-E1-C8

<400> 14341

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cgactccggc ctgcagacgg gtgaccccg cgggttcacc ctgcgacgaca cgctggcctg 120
cggcgccgtc ggccacatcc tcggcgctctg catcgtgctc gggctcaaga acaccggcg 180
cctcgaccag atcatcggt agatccctac gtcgccgttg ttanaatcag actcagcagc 240
ctcgatcgcg ccgccggccg gcaggtgcaa gtggtgactt tgt 283

<210> 14342

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-C9

<400> 14342

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tgggatgcgg ctacaagctc acagacgatg ggacaataac cgaggagtac tgggagccgg 120
ttgaggactc taacactgac gaggaaaacg aagtaccggc aaggaagccc taccggatcg 180
agctcgttgg tgtggtctgt gacgcatatc tagcggttgt caggggaatc aggagagctg 240
tagtcactgg gagagcagtg aggggtgaagt cgcagctgca gtctcacaag cgatttgcta 300
cggctttcaa cagctactgc agcctcgtcg acaacgccat gctctacagc agcaacacct 360
tgggtgttcc caagctgat 379

<210> 14343

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-D11

<400> 14343

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agctgacgac cattgcgtcc ctctctcag cggccatcaa cggccattcc ttcacgggcg 120
caccgctcg cgcagtggc agcaggaggt ccttcaccgt gcgtgcctct ctccgcaagg 180

cgattgccaa cgccgccgtg gtcgttgccg ccagcgtcct gcatgccggc ggctgagcca 240
 tggtcacga tgtgtgctg ggcgcaggcg acggcgggct cgttcttgat ctacagacagt 300
 tcaccgtgaa cgtcggcgac accatcacct ttaagaacaa cgccggcttc ccgcataaag 360
 tcgtgttcga cgaa 374

<210> 14344
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-D12

<400> 14344

gtactctcat aacgatcttg aagagaagtc cacatctgat gagactgac aaatggaaca 60
 atctctacaa caaattgac ctccacacta gcaacaagaa cagaactgac acgagcatcc 120
 tgatgcaacc acaacttgta agcattgaac taagactcat atgatgccat gagatcatca 180
 aaatcagcga gaaactttgc cttgtcttca tcaattgcct ttggtatcta agaaggcgag 240
 catggaagct tgctcgtgag aaactcctag aggtgcatgc cacacgtggt agcatatgcg 300
 aggaaccag acatgataga tgggtcccatg aaatagcagt ggacaacgaa ggacgagagc 360
 atcacggtg gaggaaaatg gtgacatctt agacaagcag atgatg 406

<210> 14345
 <211> 293
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-D2

<400> 14345

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 cccgttcttc gacggcgcg caccacggcg cttctcttc acgcagttcc ctttcttcgg 120
 cgcgtgctc cgcccgctgg ccccgcgggc tcggctcttc cactcatcgc cgctcacgcc 180
 cttctcttc tctctcacgc tctacttcgc cgttggtcgg aaccagcagg cgttctcccg 240
 cttcgtccgc ttcaacgcga tgcaggccgt cgtgctcgac gtgctgctca tct 293

<210> 14346
<211> 440
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB36-013-Q1-E1-D3

<400> 14346

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gcgtctggag cgttggaggg tgcgcactac ctgcgaactg gcaagctgga ggtgcttctg 120
gagcagcagt tcgtcgactg tgaccacgag tgtgattcat cggagcctga ttcattgat 180
tcgggttgca atgggtgggct aatgacgacg gcattcagtt atctccagaa ggccggtggc 240
cttgagagtg agaaggatta cccttacct gggagtgatg gcaaattgcaa gtttgacaag 300
tccaagattg ttgcttcagt tcagaacttc agtggttgtt ctgtggacga cgctcanatt 360
ttcggctaac ctcatcaaaa catgggccat ttggcaatcg ggatcaattg cgccctacaa 420
tggcagacat acatcgggag 440

<210> 14347
<211> 304
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-D6

<400> 14347

gaagagctcc caaaataaag agtgaagatt taagatgaag tgggtgttga agaggagttt 60
actccagtgc ctgttcatca agtggatgga gccatctaac tgatcatcgt gttagaagta 120
tctagaacct cttctctgca acaaaggaga agttttattc cttatttttt ttgggttagtt 180
acttcatgtg gaggccttga agcttagaat gtttatgtat atatcttatg gaaaggcttc 240
acccttccaa ctattttaat aagttagtga ctttgggtac tatcaggact tgtaataaat 300
acat 304

<210> 14348
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-D7

<400> 14348

ccccggtgag ccttgacgcc gaggacatcc gcaacgagaa ggtgaagggtg ctgaggtcca 60
tgaggcagct gaagctcgag gacgtggtgg tgggccagta caagggccac tccaagggcg 120
gcaagtcgta cccgggctac gccgacgacc ccaccgtgcc caagggcagc gtcacgcca 180
ccttcgccgc cgccgcgctc ttcacgaca acgcgcgctg ggacggtgtg ccgttctga 240
tgaaggcagg caagggcgtg cacacacgac gcgaggagat ccgggtgcag ttccggcgcg 300
tgccgggaaa cctgtaccgg cggaacatcg gcgaggacct ggacaaggcg accaacgagc 360
tgggtgctcg ggtgcagccc gacgaaggca tctacctcaa agtcaacaac aaggtgcccc 420
ggctgggcat gcgcctcgaa cgcagcaacc tc 452

<210> 14349

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-D8

<400> 14349

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gtgccgctgc catgggtttc gccagcacc ccaacctgaa gctggagcct cgccctcgca 120
cgcgagggt cctgogctgc gccctcagct ctgagcctgt gcagcctccc atgactgttt 180
ccatcactgg agccacatgt ttcattggac gcagattggt tcacatgctt ctatcggatg 240
atcagaaggt ttgcatttta acacggtctg cctccagagc tgcgtcagtt tttcctgctt 300
ccacctatcc tggactcaca ata 323

<210> 14350

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-013-Q1-E1-D9

<400> 14350

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aaaccttccc ctgacatatt tttggaggct gcaaagaggc ttggtgcaaa tccatcgtct 120
 tgcttgggta tagaagattc tgtcgttga gtcaagggtg ccaaggcttc tggggcaaaag 180
 gcagttgcag taccatcact tcaaaatcag aggaaccact attacattgc tgatgtcatc 240
 ctatattegc ttttggactt tcaacctgag atgtggggtc ttctccatt tgaagatcgc 300
 attcaagggtg ttctgccaat tgatccctta ctttcaaag cccggataag tggtaaaatt 360
 ttgaacaaca ttcatgggt aatttcagat gactgtgcct acgagtatat tccntgacaa 420
 atatcangaa ttttttttgg gt 442

<210> 14351

<211> 415

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-013-Q1-E1-E1

<400> 14351

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 acccggttggg cctggcggag gaccccgaga acctgcgggtg gttcgtgcag gcgagctgg 120
 tgaacggccg gtgggccatg cttggcgtgg cgggatgct catcncggag gtgctgacca 180
 aagccgggct gatcaacgcg ccgcagtgt acgacgccgg caagtcggag tacttcgcgt 240
 cgtcgtccac gctgttcgtg gtcgagttca tctgttcca ctacgtggag atccggcgg 300
 ggcaggacat caagaacccc ggcagcgtca accaggaccc catcttcaag agctacagcc 360
 tgccgccgca cgagtgcggc taccgggca gcgtcttcaa accgctcaac ttcgc 415

<210> 14352

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-E11

<400> 14352

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 cttcgccggc aaggccgtga acgtgccgtc gtcgtccgcc ttggcgagg cccgcgtgac 120

gatgcgcaag acggcgggga aggccaagcc ggcggcggcg tccgggagcc cgtggtacgg 180
 ccccgaccgc gtgctgtacc tgggcccact gtccggcgag ccgccgagct acctgacggg 240
 cgagttcccg ggcgactacg gctgggacac cgcggggctg tcggcggacc cggagacgtt 300
 cgccaagaac cgggagctgg aggtgatcca ctcccgtgg gccatgctgg gcgcgctcgg 360
 ctgcgtcttc ccggagctgc tcgccgcaa cggcgtaag 400

<210> 14353

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-E2

<400> 14353

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 aggaggcagc caaagatcaa gtggtttttag caacgagtac attgtgataa ccatattggg 120
 tgctgctgag ggagtacata agctgccggt tataaatagc agcaatgact taaagacagc 180
 tctacaaaag atgggtgccca taccatcaag caaaatactg gcagtcgagg tctgtggac 240
 tccgcaaaat gagaatgaca cattgtccga gcgagagctc cttgaagatt acccgctctt 300
 agggcctctg t 311

<210> 14354

<211> 203

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-E4

<400> 14354

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 catgatgccca ccccgacgaa cgacgtccct gaaccacca ccaagcacag aaagatgcct 120
 cccaggacaa tgaatctggg accagttgta atgcccctgg ccgccgagga gagttectcg 180
 cagacgtgag ccgcatacat gag 203

<210> 14355

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-E5

<400> 14355

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ccttctatgc ctggacatgt ggttcaagct tttacgttgc tgaaatcaag cacggaggct 120

cagagtgttg tcgcctccct tgcacagat agaaatgtct gggatgcagt attgaagaac 180

gagaagggtta tggagtttta taagactcac cagacaagta cctcatgaga ctttagacag 240

ttaaacttat cgtattcatc gtctctacca acttggttga ccattgttga tgcctctgc 300

tatgacacag ctctagttca gacatccctt aacgaagccg tcacagtaga gttgccgggg 360

aagctggaag atgctgcctc tgaaaacaca tccagcggcg aactccccgc tggctcaggc 420

ctgagtttct ccga 434

<210> 14356

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-E7

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cagcctcacc cctgcgcccc cgccgattcg cgtcgccctt tgttggaagg aacgatggag 120

cagaccttca tcatgatcaa gcccgacggc gtccagcggg gcctgatcgg ggacatcatc 180

agtcgcttcg agaagaaagg gttctacctc aaggggatga agttcatgaa cgtggagagg 240

tccttcgcgc agcagcacta cgctgacctt tccgacaagc ctttcttcac cgggttggtg 300

gagtacatca tttccggccc cgtggtggcg atggtgtggg aggggaagga cgtcgtgttg 360

actggccgca ggatcattgg ggccaccaag ccttgggagg cagcccccg gtacattcgt 420

ggggactacg 430

<210> 14357

<211> 211

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-E8

<400> 14357

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gcttcaatgt aaaatctatg ccgtccggcc ccaaaacaaa gaaagaaaag aaaagaaaga 120
aacaaaactt catcatgatc aagcccaaaa agagtcaaac agcgccctgaa taagagacat 180
catcaatcgc ttcaaaaaag ggggggctcc a 211

<210> 14358

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-E9

<400> 14358

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cgcccggcgt tctagacgag cttcatgcgg ggcaaccggg tgcggcgaa gacacctctg 120
atgaacaaga acctggataa gaatggcacg atcaactgca tgacgtttca cctggactgg 180
ctgtcgacgg aactgagcgt catcggtatc gggctcatcc gctggatggg gccgtcgatc 240
gtctcggcca tcaacggtaa cagcctcacg gggctcttct tctacagcat ccgtcatcag 300
ctggatcagt taccactcgg cccgcttgtc aactccagc tctggctgtg gctagtgcag 360
tgtgacctga gcctgttcat cgtgctcac 389

<210> 14359

<211> 203

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-F1

<400> 14359

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ttgtcagcaa tggccaccac cgccgcgtcc agcctcctca agtcctcctt cgccgggctcc 120
gggtcccttc gccagccaca caccgtctcg tggcgtgatc gcccgcgggc atgctcattc 180
ctccacccta atgatctcgt aca 203

<210> 14360
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB36-013-Q1-E1-F10

<400> 14360

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 atccatgatt acagcgtgag gcttaaagct gcanaaaaag tttcttaaag ctggcgacaa 120
 ggttaagata attgtgaacc tgaaaggacg ggaaaacttg tataaaaaag aagctatcga 180
 actccttaga agattccaaa atgatgttgg cgagctggcg acagaagaaa gtaagaattt 240
 cgcgagagag aatatatata tggttcttgt tccaataaga tagctatata gaaagaacaa 300
 gatgaattga acaaaaaggg tgctgtgaga gaagagaaag accaatcaga cagtgatgaa 360
 ccagaagaga acgaacaacc agacagcgat gtaccctga cagaactgct 410

<210> 14361
 <211> 389
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB36-013-Q1-E1-F12

<400> 14361

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 cgccgtccac gccagcgggtg ccgtcttctt cgcccagctc tggcacaccg gccgggcctc 120
 cccctcagaa ttccaaccaa atgggcaggc accgatctct agcacggaca agcaaattcc 180
 agcacagggtg aaccattccg gtgacgtcaa cacgttcgcg gtgcctcgga gactagagac 240
 agaggagata ccacacgtcg tcaatgactt ccgggttgcc gccagaaacg ccatcaaagc 300
 aggctttgat ggagtggaga ttcacgcggc aaacgggtac ctgttcgata agttcatgaa 360
 nggacagcac aatgaccgag acgactcct 389

<210> 14362
 <211> 410
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-013-Q1-E1-F3

<400> 14362

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cgctgatgtt aagacggaga agatttgtgt gttaggagga agtggattcg ttggttctgc 120

gatttgcaga gctgctgtat ccaaaggcat tgagggtgtg agcttcagca ggtcaggaag 180

accatcttac tctgatccct gngttgatca agtcaattgg ctgccaggag atgttttcta 240

tgcaagatgg gatgaagtat tggttggggc tactgctgtt gtgtctaacc ttgggagggg 300

ttggcaatga agaacanatg aaaaggatta attgtgaggg aaatgtcata gcagtaaatg 360

ctgcaaaaga aaatggagtc ccanaattca ttttaatctc cgttcatgac 410

<210> 14363

<211> 173

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-F4

<400> 14363

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cgctcaagct ggttggcgcc cactacgact tcgtcaaagg gcagttcgtc acatgggagc 120

ctccccagga cgccatcgag cgcttgacga gcgggttcca gcagttcaag gtc 173

<210> 14364

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-F5

<400> 14364

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ctagctaccc gaaatgctcc ccggtgcttc tagacaagtt tcctgatgaa caatgcagga 120

actcagacga cctgtctacc aaggccaaga caaagttcag cgtattgctc cggggtctag 180

ctgagcccat gtcactgcga gaaatcgcaa ggacatggga tgcttgcgct cgcaaagtga 240

tcacagagta tgcccagcaa accggaggac gcagtttcag ctcgagctat ggttgctggg . 300
 aaagctgcgt acgcgcctgt ta 322

<210> 14365
 <211> 322
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-F6

<400> 14365

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 aaatatatat actatactat actatactac tacgtacctt ccgatatgca cccgagcaat 120
 gtgaatgcgt cgagtactat ctgttttctg catctacata tatatatata taccggatca 180
 atcgcccaat gtgaatgtaa taagcaatat aatttccaca acttttcatt cctacgcctg 240
 aacttttaag ttccaacaaa cctaatatgt ggattattat taggacggcc ttgtgattaa 300
 aaaaaaaaaa aaaagggggg gc 322

<210> 14366
 <211> 427
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB36-013-Q1-E1-F7

<400> 14366

cgagaagaac ctggacgtcg tgttcctcaa gctggactgc aaccaggaca acaagcctct 60
 cggaaggag ctgggcataa aggttgtgcc gacgttcaag atcctcaagg gcgggaaggt 120
 cgtgaaggag gtcaccggcg ccaagatcga cgagctagcg gaagccatcg agatagccaa 180
 caagaagtca ggctgacaaa ggaatagcaa gatcgacgtg cagtgaagc aaggatgaat 240
 ggatgatcga tgaactagct agtgaagact gcgaatgaat gcgccccggc cgcgcatctg 300
 tgggaccggc aacatgcatg cagaanacaa gctattctag ttcttctgct taggcctcc 360
 gcaattgcta tctcaaatag ctagctgatg tggagctgag agaagaatac aaatagtaag 420
 ttatctc 427

<210> 14367
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-013-Q1-E1-F9

 <400> 14367

 ggtggatagc ccggcgatcg tggggtctg aggggtactc cggaccggct gatcgaggtg 60
 aaggtcacgg cggacaacag cagctgcacg cgctccatct ccttcatcta catcggagcc 120
 gatggcaaac cgtacgagga gggggccatgg gggttcggcc atgctggcac ggagtacaag 180
 attgatctgt gcaggttcga cgagagcttg acggagatct ccgggaccac gggcccagcc 240
 tacaacattg acaatctggg caagtctctc aaattcgtca ccaacaaacg cgcttacgga 300
 ccgtacggca gggacgaggg caccgcgttc cgtgtcaagg tgatgaacaa cggccacgtc 360
 gctggcttct ttggccgctc tggagattgc ctggacgcga tcgggctcta cgtgaacccc 420
 aattaataac taaaacga 438

<210> 14368
 <211> 451
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB36-013-Q1-E1-G1

 <400> 14368

 ccacgcgtcc ggaccagaag gccatcatgt ccaacgagga gttcgacaac ctcaaggagg 60
 agctcatgtg ggaggggagc agcgtcgtca tgctaaacga agatgagcaa aagcttttgg 120
 aagcttcctt ggcctatacc tccggcaacc caatcatgtc tgatgctgag ttcgacgaac 180
 tgaaacttag attaaagaca gacggcagtg tcattgtgaa gganggtccc aggtgcagcc 240
 taaggactca taaggtgtac agtgacttga atgttgacta cctaaagatg ttcctcctaa 300
 atgttcagc caccacgta gctctgggac tggtcttttt cattgatgaa ttgactgggt 360
 ttgagatcaa tgtgttccag ctgccagagc ctttcggatt cattttcaca tggtttgctg 420
 ctttgccct aatattgttc ttagcgagt c 451

<210> 14369
 <211> 352
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB36-013-Q1-E1-G10

<400> 14369

 cccacgcgtc cgcgagagta gacgatcaga accaccatat atgtcctcac cagcaagttg 60
 tgccaagaaa tggaatagtt gtaaaacgag tagatacaac gaaaattagt gatgtggtgt 120
 ctgcaattgg accctccact agactggttt ggctcgaaag tcccacgaac cctcgtcagc 180
 aaattactga cattaagaca atctcagaga tagcgcattc tcatgggtgct cttgttttgg 240
 ttgacaacag catcatgtct ccagtgtctt cncgtcctat agaactggga gctgatatcg 300
 tgatgcactc ggctaccaa tttatagcgg gacatagtga tcttatggct gg 352

<210> 14370
 <211> 405
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB36-013-Q1-E1-G11

<400> 14370

 cggacgcgtg ggtaaagtgc gagcctgagc tgccccagtg gaagagctcc gccatcgccg 60
 acctcggcgt gggcacccgag aacaagatcg ccatgcactt cgacagggtc ttttggccca 120
 acgtcgaggt gctgggaatg gtcgggccga cgcccaaagc ctgtgggtac ttctgaacc 180
 tgcacaaagc caccggcaat ccggtcctcg tgtacatggc cgccggaagg ttcgcccagg 240
 aggtggagaa gctgtcggac aaggaagccg tcggcctggt cgtttctcac ctgaagaaga 300
 tgctcccgga tgccactgaa ccgacgcagt acctggtgtc gcgatggggc tccgacccca 360
 actcctgng gtcctactcg tgcgacctgg tcgcgaagcc ggcga 405

<210> 14371
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB36-013-Q1-E1-G12

<400> 14371

cccacgcgtc cgatcactct atgctagtgg gcgtactact ggtattgttc ttgactctgg 60
tgatgggtgtg agccacactg tgcccattta cgaaggatat gcccttcctc atgccattct 120
tcgtttggat cttgctgggc gggacctcac agactccctc atgaaaatcc tgactgagag 180
gggttactcc ttcacaacct ctgccgagcg agaaattgta agggacatca aggagaagct 240
ggcatatata gcccttgact atgagcaaga gttggaaact gccagaaca gctcctcagt 300
tganaagagc tatgagctac ctgatggcca agtaatcacc attggtgcag agagattcag 360
atgccctgag gtcctcttcc cagcatccat gattgggtatg gaggtgccg gaatccatga 420
gacaacatac aattcaatca tg 442

<210> 14372

<211> 449

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-013-Q1-E1-G5

<400> 14372

aggacggcga cgtcgccctc ttctttggcc tctcaggtac cgggaagacg acgctgtcga 60
cggatcacia caggcttctg atcggcgacg acgagcactg ctggagcgac aatggcgtgt 120
ccaacatcga gggaggctgc tacgccaagt gcatcgacct ggcgcaggag aaagagcctg 180
atatttgga cgcacatcaag tttggaactg tgctggagaa cgtggtcttt gatgagcata 240
ctcgtgaagt cgactacgcc gacaactctg tcaccgagaa cactccggct gcctatccga 300
tcgagtacat cccaacgcc aagatactat gcgtcggcnc gcacccaag aacgtgatcc 360
tcttggcgtg cgacgccttc ggcgtgcctc cgcgggtgag caagctgaac ctggcggcag 420
acatgttaca cttcatcagc ggctacacc 449

<210> 14373

<211> 68

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-G6

<400> 14373

acgtcatgtt cctcaagctg gactgcaacc aggacaacaa gcctctcgcg aaggagctgg 60
gcataaag 68

<210> 14374

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-G9

<400> 14374

atcaccacacc cctcccggcc tcccctgacc tctctcgatc actcgtcac tccaccacac 60
acacacacgc gcgagcgaat ccaaggaaga agaagaggag gaggatccat ggagaagtgc 120
aggtcgggtgc cgcacgagca ctcgctggcg tactacggct gcggaggcgg gtacgactac 180
gaggacgtcg gcggcggggc cgggcaggcc ggcaagtcgt acagcttcaa cgggccgagc 240
ggccggggacg acccgagggc gaagcggccg cgcccgctgg cggcgtacaa cgtgttcgcc 300
acgcagggcc ggatcaagac caccgtccgc agcagcgtca agtgggtcaa gtccaagttc 360
tccgacgtcc gctacgggtgg cctctgaact gatctgatga gcgtgagcct actgcatgca 420
acgcacccct 429

<210> 14375

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-H10

<400> 14375

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ggccctctcc tccacagcct tcgccggcaa ggcagtgaac gtgccgtcgt ctctcttcgg 120
cgaggcccg cgtacgatgc gcaagacggc ggccaaggca aagccggcgg cgagctccgg 180
cagcccgctgg tacggccccg accgctgtct ctacctgggc ccgctgtccg ggcgcgcccc 240
gagctacctg acgggcgagt tcccgggcga ctacggctgg gataccgcgg ggctgtcggc 300
ggaccgggag acgttcgcca agaaccggga gctggaggtc atccactccc gctgggccat 360

gctgggcgcg ttgggctgcc tgttcccggg agctgctcgc ccgc

404

<210> 14376

<211> 344

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-013-Q1-E1-H11

<400> 14376

cccacgcgtc cgcacagagc ctagtataga ggagcttgcg gccaaagaac gtgcggagcc 60

aggctactgc ggtcgagtga gggacttcgt tgtgggtcga catgactacg gcagcatcaa 120

atTTTTcggg gagacggacg tgaggtgcct cgatctggag tcaattgtgg agtttaacga 180

ccgggaggtt attgtgtaca aggacgatag caagaagccc cctgtgggcy aggggctgaa 240

caaggctgca gaggtgactc tactgaacat caagtgcgta aacaagaaga ccggggagcc 300

gtgccagggg gcaagagtgg agaggtacan ggagatgctg gtga 344

<210> 14377

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-H2

<400> 14377

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acacatacta gccagcctgc cagccagctt gccatggcgc ccaccgtgat gatggcctcg 120

tcggcaaccg ccgtcgcccc gttccagggt ctcaagtccg ccgccagcct ccccgctcgc 180

cgccgcagca ccaggagcct cggcaacgtc agcaacggcg gaaggatccg gtgcatgcaa 240

gtgt 244

<210> 14378

<211> 289

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-H4

<400> 14378

aacccacccg tcggcccacg cgtcggcaca cacacgcaca cacactatcg tccagcaagc 60
tcgctgttgc ttgccaccca ccgcctcagc tcgatcgcaa cgcgctcggc atggcgctccg 120
agggtgtggct atcgccggcg tctcgcctcc catccctctc caacgcacca cctcgcttac 180
gtccaagcc tgccaccaca accgcctctt tgcctctctc ctgtcccccgc cctgcccgcg 240
ccctgcctgt gctgcgtgtc cgtcgcgcgc gccgacttcg cgcaccga 289

<210> 14379

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-H5

<400> 14379

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cgagatcgtg cgcctcacgc gcgaggctgt gcccggcagc atcgtcaccg ggatggaggt 120
cgccgagatc gacggcgccc cgaggatggg cccgacgttc ggcgccatga tgatctccgg 180
ccagaaggcg gcgcacctgg cgctgaaggc actgggcagg cccaacgccg tggacgggac 240
catccccgag gtgtcgccgg cgctgcgcga ggagtctgtg attgcgtcca aggacgacga 300
ggtcgtggac gcctgagcga gcatccacgc gccagcatgc aagcagcgtc ttatctgggg 360
cggcgccatc acgggggttc ttcttttaat ctgggaacttt gttgggtg 407

<210> 14380

<211> 221

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-013-Q1-E1-H6

<400> 14380

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cgcagggggt caagggtgac ccacgtacc tgntgggtga gcaggacaag acgctggcca 120
cctacgggat caacgccttt tgcactcaac tcgggttcctt cttcccttgg aacggcccta 180
aaaccagttc aaccggcccc tgcaacggtt ccaattacac c 221

<210> 14381
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-H7

<400> 14381

gtcatcacac tctctgccat cacataaaac cagtgcgaagc agaagcagcg caatggcgag 60
cagcatcatg gccctctcct ccacaggctt cgccggcaag gcagtgaacg tgccgtcgtc 120
tctcttcggc gaggcccgcg tgacgatgcy caagacggcg gcgaacgcaa agccggcgcg 180
gagctccggc agcccgtggt acggccccga ccgctgctc tacctgggccc cgctgtccgg 240
cgccccccg agctacctga cgggcgagtt cccggggccac tactgctggg ataccgcggg 300
gctgtcggcg gaccgggaga cgctcgcaa gaaccgggag ctggagggtca tccactcgcg 360
ctgggccatg ctgggcgcgt tgggctgcgt gttcccgag ctgctcgccc gcaacggcgt 420
caag 424

<210> 14382
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-H9

<400> 14382

cccacgcgtc cgcaggccag tttggcaaat gatagatgaa agagtatgaa catagagga 60
actgatgctg gagaaaccga caaggtcctt tcttcacaaa cggataagca gaaggattcc 120
gtggaaagtg taacaaagca gatgagtggc attgctattt ctgagtcaca tgcaatgccg 180
tcgacagata ctataaacia ttgcgaacca gaatcatctg ctccagacat agacaagaag 240
attcgagcac tgaaaaagaa gatacgctta gctgaagcac aagtacaagg cgaccctgaa 300
aaattgaaat ctgaaacgct ggaaaagatt aaaaagattg atggatgggtg tatggaaactg 360
aagcttttgg aggacagcat agctcctgcy gcctagacaa aatcgacttc ggctctgatg 420
tagtagaata gacag 435

<210> 14383
 <211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-014-Q1-E1-A10

 <400> 14383

 cggaacgctg ggcgcgcgcg gcccgctcgg agaggctcgc gaccgcctct acccggcgg 60
 cagcttcgac ccgctcggcc tcgccgacga ccctgaggcc ttcgcggagc tcaaggtgaa 120
 ggagctcaag aacggccgcc tcgccatgtt ctccatgttc gggttcttcg tccaggccat 180
 cgtcaccggc aagggccgcg tcgagaacct cgccgaccac ctgcgcgacc ccgtcaacaa 240
 caacgcctgg gcctatgcca ccaactttgt gcccggaag tgaggggggtg gaggcgccac 300
 cgccaccggc ccaccgctgc ggatatctag gtgttcggat gcacgtgagc gcgcactggt 360
 tccagtttgt accatgatgt aaattactta ccgtaccagg gttcaatcgg caaggaagaa 420
 ttgttgtgtt c 431

<210> 14384
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB36-014-Q1-E1-A11

 <400> 14384

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 atgaaatcat gtccaaactg aaagatccag atgcggagtt tgagataatt cagattcttg 120
 tcaaggagtg caataagatc gaaggtcacg tccagcagtg caagaggctg gttctgcaat 180
 acattcccct catcttggtg aacggtgaga agttcctcga gaagaacgat gtctgcgcgc 240
 tcgcacaggc ttgtccagcg agcagtagga agacgttcag ctcgatgttg aaggagcgt 300
 tgtggagtga cgcttggtt gaaggttgaa gaagaacaca cggagcgggt tagcagtgg 360
 caganatagt gtgaacaagt gctgtgctgt acatataata atgtcgtgta taaacgcagt 420
 aaggacgtgt gccctgc 437

<210> 14385

<211> 153
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-014-Q1-E1-A12

 <400> 14385

 ggtaaatctt ctgtccacac cagtgttcac ctctcctctt cccaagtttg cctagtcctt 60
 aggtggtgac catcgtcagc agttagtcca cctcgccgtg accagaactc ccagcacgag 120
 gactgaagat tcaagctgaa gtggtgactg aag 153

<210> 14386
 <211> 407
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-014-Q1-E1-A4

 <400> 14386

 cccacgcgtc cgtggaaaga cagttcattc cataaaagga catcgggact actcatttgc 60
 atcggtttgg agccctgatg ggccaacatt tgctaccggc aaccaagaca agacatgccg 120
 aatctgggac gtgaggaacc tttcaaaatc cgtccatgtg ttgaggggta accttgagac 180
 catccgggtc atccgcttca cctcggtatg ccagttcatg tccatggctg aacctgctga 240
 ctttgtgcac atctacgacg tgaagagtga ctacaacaaa aggcaagagc tggacttctt 300
 tggcgagata accggcacat cgttcagccc agacactgac acgcttttcg ttggtgtgtg 360
 ggataggatg tatgggagcc tgctacaatt tggcgctgt acaacta 407

<210> 14387
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-014-Q1-E1-A5

 <400> 14387

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 agatgttctt cgaggagcac gacgactaca agtacaccgg gtcgcgctgg ctgttcctgg 120
 gcgtcccgac cagcgacacc ctgctgtaca aggaggagct ggagaagatg aaggagatgg 180

cgccggacaa cttccggctg gacttcgcgg tgagccgaga gcagacgaac gcggccgggg 240
 agaagatgta catccagacg cgcattggcg agtacaagga ggagctgtgg gagctgctca 300
 agaaggacaa cacctacgtc tacatgtgcg ggctcaaggg catggagaag ggcatcgacg 360
 acatcatgct cgacctcgca gccaaaggac ggatcaactg gttggaetac aagaagcagc 420
 tcaagaagag cgagc 435

<210> 14388

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-014-Q1-E1-A8

<400> 14388

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 ccctttcagg gatttggggg acacagcacc cagatatcca actcacactc atttcacaca 120
 actcttcccc aaatcttcga ttagattctc gttgacaaga agactataac cgaacctgac 180
 catgtcgctg atccgccgca gcaacgtgtt cgatcccttc tccctcgacc tctgggacac 240
 ctttgagggc gtctccttcg gctccggcag cagcagcagt ctcttctcct cgttctcgcg 300
 gaccagctcg gagaccgcgg ccttcgctgg cgcgcggtac gactggaagg agactccaca 360
 ggcgacggtt gtcaatgcag acgtaccgg 389

<210> 14389

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-014-Q1-E1-B1

<400> 14389

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 cgcccttcac cggcgacgtg catccctccg gagaagaata ttgcgctcac ataactgaat 120
 aactgatatt aggatgagtc tctgtacaat agcacgacgg ctatgtcttt caaaaccatc 180
 ctctggcagt cgtcttccag caatttgggc tcatctatac agcactgagg ctgcaaagga 240
 catgggtgct aagaagtaca agtaccgccg tgtatacgac cctacggggc ctatgccgcc 300

gccttcggag aaagtcgtgg aactagctga tcgcacgct gctcttcctc ccg 353

<210> 14390

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-014-Q1-E1-B11

<400> 14390

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ccttcccgcc gctccgcgtt ccgcctctct ccctcggcgc agcgtctgcc agcttcgctt 180

ccaagatgca ccgaggctct ccctgctccg tgcgaaggcc gcttccgagg acacatcgcc 240

ctccggcgac gaggtagatg aggacctcaa agcgaagtgg gacgccgttg aggacaagcc 300

caccgtcttc ttgtacggcg gcggcgccgt cgtcgccctt tggctgacgt ccgtggctgt 360

gggcgccatc aacgccgtgc cgtgctccc caagatcctg gagctcgttg ggctcggcta 420

caccggctgg ttcgtg 436

<210> 14391

<211> 434

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-014-Q1-E1-B12

<400> 14391

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gcagcgacgc ccactgttct gcctacttgt gctcgcccca gcacttgtgc ttgccctcgg 180

ctcgcatagg cgtcgcgctg cctgctcatc gtcaccgctg cgcgttcgct ctctgtctat 240

cgggtttcgt gctgctcgc atttgccatc gagccgtttg aaccgttttt ccctgctcga 300

cctcgctcga cccgaatccc ggacgttggg canatgtaag cgaggtccgt gtgcacgct 360

tatcaagtgc tcggtcaaag acttcaatca aagttcgtcg ttgtnccgtg cgtcatcaag 420

aatcccaag agtc 434

<210> 14392

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-014-Q1-E1-B5

<400> 14392

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aaggcacaga agcacagcac gattgactaa gcggcagtaa aatctcatat cacaacttgc 120
tcgcttcgag tgcacgctat ttcaatcgct taatttaagc acgcttcata ctacatgacc 180
agacgcacgt ataaaatcgt cgtcgaacta agcttgccaa ctcagcaccg ccacacagga 240
tatacagaga gatcgaggcc tgtcacattc atttttcgac tcgatgcacc tgcattgcgc 300
ggttggctac cgacttcgtg ccgccgagga actcgttcgg gacgacctg atctgcttgc 360
ccgtcttgga cttggcgatc atctggatcg tccgtggggtt ggtgagcctc cgcaatttgg 420
tgcacgtgcc ggacac 436

<210> 14393

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-014-Q1-E1-B9

<400> 14393

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gaagccctc ttcttctatg tcaacctcgc caagagggtac atgcagctgc acaacgaagt 240
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aaataacggg cttgctgtcg cgaagagtat catgacatct actgttgata tcaaggacga 360
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gtttgatgag ctgatggc 438

<210> 14394
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 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB36-014-Q1-E1-C1

 <400> 14394

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<210> 14395
 <211> 370
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 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB36-014-Q1-E1-C10

 <400> 14395

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cagttcttgt ctgaacagct cgggatcgcc atcaccgacc acgacgagag ccctcgacta 180
gatgatcagg aggacatata cgacaggccg ccgcaaacct cttcttgtcc ggtactgtct 240
tgcccacaacc aagaagaggg tctccagang gcaggggtctc ctgttaaagc tcagctgagt 300
tcatatcgag ctgcatgtaa taacaagcca agactgaggt ggaatctgga gctccatgag 360
cttttcgtga 370
  
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<211> 463
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-014-Q1-E1-C2

 <400> 14396

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 tacgaaacca aggatactga tatcttggca gcattccgag taactcctca gctcgggggtt 180
 ccgcctgaag aagcaggagc tgcagtagct gcggaatctt ctactggtag atggacaact 240
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 cccgttcttg gggaccaga tcaatatatc tggtatgtag cttatccatt agacctatct 360
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<210> 14397
 <211> 295
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-014-Q1-E1-C5

 <400> 14397

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 cggcgccgct gccacatcc tcggcgctctg catcgctgctc gggctcaaga acaccggcgc 180
 cctcgaccag atcatcggct agatccctac gtggccgttg tgaagatcag actcagcatc 240
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<210> 14398
 <211> 404
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-014-Q1-E1-C6

 <400> 14398

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 gaagatactc ttcgcggtca agcaatactg gactgctgaa aaaacaagca gctaacgttg 180
 ttcatTTTca tttttttctc cagtcacagc taacttgccc cctggctgtg tttattggaa 240
 aaatttctgt cgattatata gcccatgtat gttactgaca atataaaaca gcccccttga 300
 gggggagtaa attatgtggg atttagctgt gaacttggga tttgattatt ccaactgggtgc 360
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<210> 14399

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-014-Q1-E1-C8

<400> 14399

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 tgaaattgga cacttttttg cagcatttcc aaaaaatgtg aaactaggca ttcctttctt 180
 tattccgaac ttcacccttg gaacttttgg tgcaattact cagttcaagt ccattcttcc 240
 ggatcgaaag acaatgtttg acatatcaat ggctggctct gtggctggag ctgcactttc 300
 cttttcaatg ttctttgtag gcttattact ctcttcaaat cctgttgggg caagtgattt 360
 agtagaagta cctagccagc tgttcccagg ttcattgttg cttggactca ttagtagagc 420
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<210> 14400

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-014-Q1-E1-D1

<400> 14400

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cgccaccgcc ctgagcatga gcatacctccg cgcgcgcgcg ccttgcttct cgtctccact 180
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cgcgcaggcc acctacaacg tgaagctgat cacgccggac ggggaggtgg agctgcaggt 300
gcccgaacgac gtctacatcc tggacttcgc cgaggaggaa agcatcgacc tgcccttccc 360
ctgcgctgcg gggctctgct cctcctgcgc cggcaaggtc gtctctggct ccgtcgacca 420
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<210> 14401

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-014-Q1-E1-D10

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cggctcgacaa ggccaagcgt aagctccgcg gcctcatcgc cgagaagaat tgcgccccgc 180
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aaattgccat caggctgcta gagcccatca aggagcagtt ccccatccta tctacgctg 360
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<210> 14402

<211> 431

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-014-Q1-E1-D11

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ttccttctct cctttccttt ttgctccgat ccgatccgat caatgaccaa gtcgaagggt 180
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<210> 14403
 <211> 135
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-014-Q1-E1-D5
 <400> 14403

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 gacggaggct cctgc 135

<210> 14404
 <211> 457
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-014-Q1-E1-E1
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 ggccgctcgg cgaggctcgc gaccgcgtgt accctggcgg cagcttcgac cccctcggcc 180
 tggccgacga ccccgaggcc ttccgagagc tcaaggtgaa tgagctcaag aacggccgcc 240
 tcgccatgtt ttccatgttc ggcttcttcg tccaggccat cgtcaccggc aagggcccg 300
 tcgacaacct cgctgaccac atcgctgacg cagtcaaaa cagcgcctgg ggctacgcca 360
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 gatcggagaa ggtgtacgta cgtggattga ttgatgc 457

<210> 14405
 <211> 437

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-014-Q1-E1-E11
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 gctccgcgag ccgtgccgtc tctgtcctgt gctgcccctg caagtgcctg gctgctggggc 180
 tcttgagctg cctgtgcagc atcctcgtct cgtctgccgt cgtcctgggc gtcgtcgcgc 240
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 tctcgcagtt cgcgctgtcg gcgtcctcca cgtctccta cgacctcaac gtcaccatga 360
 cgggtgcgcaa cccaacacg cgcgtggggc tctactacga cgacgtccag gcgctggccc 420
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<210> 14406
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 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-014-Q1-E1-E4
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 aaggaagctg cacggcagtt ggttcaacag aagaagagag acagagcttt gattgctctg 240
 aagaagaaga aagctcagga agagctgttg aaacaagttg acacatggca aatgaatgtt 300
 gaacaacagc tggcagatat tgaactagca agtaaacaaa aggctgtatt tgaaagcctg 360
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<210> 14407
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-014-Q1-E1-E7

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ccggaaggaa gctcgccgtc gccaggccgt 150

<210> 14408

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-014-Q1-E1-E8

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ggagagccga ccgctgcctt ggcacactac acctgggcaa gttccatgac caggggctca 180
agtctggccg ttctaagaga tccggttcag cgatgggtggg cgccttgccg ttgctggacg 240
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<210> 14409

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-014-Q1-E1-F10

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tccatgcata tgcgaaacag gagtttgaat cctatcacct aacggattta aatgatgaag 180
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gtgtacattg ttggcatcat catgcacaat attgtacatc tagaagccat attgtagtta 300
cggtaacgtat acagtatcac tttgatcatg taatacagta tacagttggt tacggcaaaa 360
acaagaacga caaacaagac agcgatgtaa ccttgacag 399

<210> 14410

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-014-Q1-E1-F11

<400> 14410

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tgagcccttc caagactccg gtgaagcccc gtgtaaactg agtgggatct aactgactct 300
gcgcaagctg aactggattg ttcacgggaa ggcgtcgcca taagctcgaa ggttccgcgg 360
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<210> 14411

<211> 183

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-014-Q1-E1-F12

<400> 14411

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gtgatctgca ctggcagcgt ccgacgcgct ggcgcggctg tgcccgcctg cgtcgactcg 180
atc 183

<210> 14412

<211> 186

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-014-Q1-E1-F2

<400> 14412

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aggagctctg gcggtgaccc ctgacgatga cgtgttctac ctggtggcgt tcttgcggtc 120
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<210> 14413

<211> 480

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-014-Q1-E1-F4

<400> 14413

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<210> 14414

<211> 301

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-014-Q1-E1-F6

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 gacgaggccg tggccgccga ccccgagctg agggcgcttct gggaccatgt gcgcacgtg 240
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<210> 14415

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-014-Q1-E1-F9

<400> 14415

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aagcacatgc aaagtgtc 438

<210> 14416

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-014-Q1-E1-G10

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caggacctta ctgagattaa gacaatctca cacatagcgc attctcatgg tgctcgtgtt 240
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tatcgtgagt gcactcggct accacattta tagccggga 339

<210> 14417

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-014-Q1-E1-G12

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cagccatcgt cgaggaaagg cgccgctggc gcaggtttgt tctgtagtcg cgtcatcgtc 180
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gagggcgaga accccatgat gacaccctg ccctacatca tcattctcgg catgttcacc 360
ccttcgtcat cctcgccatc gccttcgcca atggctggat caggtccctg tgcggatgac 420
gttacgcg 428

<210> 14418

<211> 119

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-014-Q1-E1-G2

<400> 14418

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<210> 14419

<211> 71

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-014-Q1-E1-G5

<400> 14419

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gtgatctgat c 71

<210> 14420

<211> 109

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-014-Q1-E1-G8

<400> 14420

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gtatataggt attgaaatat ttgtttaaat ataattattg tttattttct 109

<210> 14421

<211> 261

<212> DNA

<213> Zea mays

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<400> 14421

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gacacacaca cgcccagagc cagtccatag aagacaagga gcaggacgct ccaggggtcaa 120

ctgcaagtcg gtgccgcacg agcactcctc ggattacgac ggctgccgac gccgggtacga 180

ctactacgac ctccgcggcg ggcccgcggc atgccggcag ctctagagc ttcaaccggc 240

ccagccgccc gggacgaccc g 261

<210> 14422

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-014-Q1-E1-H11

<400> 14422

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gccgtgagca tcgccatcgt ggagcagtcg gtgtgccgg gcggcggcgc gtggctgggc 120

gggcagctgt tctcggccat ggtggtgcgc aagccggcgc acctgttctt ggacgagctg 180

ggcgtggcgt acgacgaggc cgaggactac gtggatcatca agcacgccgc gctcttcacg 240

tccaagggtca tgagcctgct cctggcgcgc cccaacgtga agctgttcaa cgccgtggcc 300

gtggaggacc tcatcgtcag gggagggcgc gtccggggcg tcgtcaccaa ctgggcgctc 360

ctgtccatga accacgacac gcagtcctgc a 391

<210> 14423
 <211> 235
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-014-Q1-E1-H12

 <400> 14423

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 ggctacgccg cggccaggtc cgcggtggca gcgctgccgt ccgtgagggt gggcaggaag 180
 aggtcgtcgt cgcagggcat ccgctgcgac tacatcgggt cggccacca cctga 235

<210> 14424
 <211> 453
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-014-Q1-E1-H2

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 gaaggccgac gctggggcgt ccaagacctc cccgcagcag gctggcaccg tccgtaagaa 120
 cggcttcacg gtcacaaaga accgtccctg caagggtgtg gaggtttcta cctccaagac 180
 tggttaagcat ggccacgcca aatgccactt tgcgccata gacatattca atgggaaaaa 240
 gcttgaagat attgttcctt catcacacaa ctgtgacatt ccgcatgtga accgtactga 300
 gtatcagctg attgatattt ctgaggatgg atttgtgagc cttcttactt cagatggcaa 360
 cactaaggat gatcttagac tcccaactga tgagactctt gtggcccaga ttaaggaagg 420
 gttcgaaagc gggaaggatc ttgttgtgac tgt 453

<210> 14425
 <211> 465
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB36-014-Q1-E1-H3

 <400> 14425

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gccacgggct gcgctcgcgg acgcgcgacc tgttcgcgcg ccccttcgcg aagaagggt 120
acatcccgt caccacctac ctccgcacct acaagatcgg cgactacgtc gacgtcaagg 180
tgaacggcgc cgtccacaag gggatgccgc acaagttcta ccacggccgc accggtcgcg 240
tctggaacgt caccaagcgc gccatcggcg tcgagataaa caagcagggtg aatggtcgca 300
tcacaggaag gcgtatccat gtccgcgtgg agcatgtgca gccgtccgcg tgtacagaag 360
agttccgcct gaggaagggtg aagaatgatc agctgaaggc ggatgcaaag gagcgcggcg 420
aggatcatcan gcacaagagg caccggttgg gtgcgaagcc tggct 465

<210> 14426
<211> 448
<212> DNA
<213> Zea mays
<223> Clone ID: LIB36-014-Q1-E1-H4
<400> 14426

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cgagtcgcgc acgtgctccc tgttttctgat gatgggtggaa gcacagctga gattgtgcgt 120
gtgcttggcg ggctgctgt gggagacata agatcaagat gtttgagggt gtctgatgaa 180
agtactgcag aagctctttc tgttcgaaaa ttgcttgggc atcgtttgcc tattgatcct 240
tcggaggcaa agctggaatg gtaccagatt gtagaaggag accacacttt atgggagggg 300
gtctctcgtc catacagggg aacaattcgt gccttttttg tctactttca cagtgaagata 360
cttcgacggg cagctgaaat gttttgcttc accaatggca gcattggaaa attccttttt 420
gctggggcac gcatattctt ccagtcgt 448

<210> 14427
<211> 103
<212> DNA
<213> Zea mays
<223> Clone ID: LIB36-014-Q1-E1-H5
<400> 14427

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acgcgtccgc accactggct taccaccagg acgtggatca ttg

103

<210> 14428

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-014-Q1-E1-H6

<400> 14428

cggacgcgtg ggtgactact gtgttgccat cctgtcattt gaaacgcacc tcaagctccg 60.

tgttctctca ctgtcaggct gctctagggc tactcagaag aacgtgctgt tcttgggtcaa 120

ccttggacag tcaatagacg gcctcaatct tcagttctgt gacatcattg gcatccacac 180

cattgcatcg ctggtcagat agctctgggt gtgtgatata cttgcatacg cagacaagat 240

gtgccattgc tggaacggct catgtctagt ctactgggag ccacctccag atgcagatat 300

acgatcgtcg cagtagcaca tccagggtgat cttcaggttt ttggctcaca tgcgatgcga 360

cttatgatgg tgggcttccg cattgttcat cgaccacttg ttttacgggg tgctttctac 420

tcaagtggcc cgttttcaca 440

<210> 14429

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-A10

<400> 14429

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ggcttgaagc taacactgat ggaacttctt ttgtaaattg atgtgcacct tgtattatga 120

gtgttaactc gaaatttcgt ctgtttgggc tctgatagtt aggtgtggaa gcaacatttg 180

ctatagctgt aatgctagga ttaacatgtg ttcattgtgg tcagatgcat ggtgcattgg 240

tgttgagctt tgagcgggaat caaccaatg ctcgctgtga ggcccatggc atcgtgttgt 300

ctggtggtgt tgtagcttat tgatgttcta tttattagaa gcaatttaag cagtggattt 360

tgtaccacaa aaacaacaat ttggat 386

<210> 14430

<211> 402
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-015-Q1-E1-A2

 <400> 14430

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 aagaagaggc ttggagaatt cgcggtgttc gaacagccat tcatcaagaa cgacaaggtc 120
 acaataagtg agtggctgaa gcaaaactata gctacaactg gagagaatat gaaggtcagg 180
 agatttgccc ggtacaacct aagtgaaggc ctggagaaga aaagccagga ttttgcgtgt 240
 gaagttgcag ccagacagc agcgaagccg ccaccagctc ctccaagga tgacaagcct 300
 gctgaaacaa cagaatccgc ggagaagaag ccggctgttg cactttcagc ctggttggtg 360
 aagcaactcc gagacgaaac cggggctggc atgatggact gc 402

<210> 14431
 <211> 177
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-015-Q1-E1-A6

 <400> 14431

 aactctctat tatgagtcgt attacatcat atttcaccgc atcacgacat gcacgcgcga 60
 cgcgcagaat caaagataca gctactgagg ctccggcgtcg atcacctgcc gctctctctc 120
 actcaatgta gtcgactgca caggcgatag cggcgactga tgacgctatg ctcaccg 177

<210> 14432
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-015-Q1-E1-A8

 <400> 14432

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 ggacccgagc gccatcgcg ccttctcctt tgggtcgctg ctgggcacgt agctgctgct 120
 gatggggtgg gtggagtcga agcgggtgggt ggacttcttc aaccgggact ccaggccgt 180

ggagtggggc acgccgtggt cgcgcaccgc tgagaacttc gccaaattca ccggcgagca 240
 gggctacccg ggcggcaagt tcttcgaccc gctcggcctc gccggcaccg tcaaggacgg 300
 cgtctacatc cccgacgtcg acaagctcga gcgggtcaag ctggccgaga tcaagcacgc 360
 ccgcatcgtc atgcttgcca tgctcgccct ctacttcgag gccgggcaag gcaagacgcc 420
 gctcggcgcg ctcgccct 438

<210> 14433

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-B1

<400> 14433

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 ctccagcacc ctctcatctg tctttagcct cctctctaga cactcacatc tctgcgatct 180
 gggatggtct actccctagg tctaccatcc tcgttgctca acacaccact gatgactcca 240
 cgggtttacaa gttacatcca tctggcacca atcagccaac gttttagtcc tcagcgatat 300
 cattgccttt ctcaattttg actatgcatt gctgcgttct taactacttc tacgaccggg 360
 t 361

<210> 14434

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-B11

<400> 14434

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 aaaactatca ctcttgacag gaaaggattg gtggaactct ttgatttact ggaaaaaggg 180
 gatctcacgg aaggctctaa gctgtcggca cttgttactg acatgcacaa gtacagacaa 240
 ggggctccaa ggaagaggta tggctccttg ccaggaagca agggcagagc acggcttaag 300

agtgaggaat ctttttacga aaacccgttt cctgagtga tctgtttgac tgggaggtcc 360
tgatgtatag ctttgcata tgatgacacg gtgcacccat cattggaagt gtgct 415

<210> 14435
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-B12

<400> 14435

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cgcaacgagc agtgccctgc gctcggcacc aggtgcgct ccaagtacaa gatcacctac 120
cagttctacc gcgcttctcc caacggcgag gtgcagtacc tccaccccaa ggacggcgtc 180
taccgggaga aggtcaaccc cggcagggag ggcgtcggcc agaacttcg cagcatcggc 240
aagaacgtca accccatcga cgtcaagttc accggcaaga gcaccttcga ctaatcacac 300
atcacgccgc cggcccgccc ggtgatccaa atcaaaggac ttcttcttct agttcttata 360
ttaataatta agctagctgc tggatgcatg gtttgatcta aatatatgtg ggcattggatg 420
t 421

<210> 14436
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-B3

<400> 14436

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ttcaagctca ggatgatcta gttaacacaa tgaaagacga tgccatgaag gaacttctcc 120
ttgtcagcca caaccacat gaatacaaga accttttgaa agacctaatc attcaggggtt 180
tgctccgttt gaaagagcca gcagtattgc tccgttgcgc caaggatgat caccatcatg 240
tggaatcagt gctgcattca gcaaagcatg agtatgcac aaaagcagat gtccatgaac 300
catagatatt tgttgatcat gatgtatacc tgccacctgc cccaagccat catgatgttc 360
atggccaatt ttgctctgga cgtactgtat tggcttctcc acattggaac attgtgtttg 420

acaatacac

429

<210> 14437

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-B9

<400> 14437

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cgccaccaa acattcgaag cttcttcgat gtcttgccgg gcgttctgga atctgaatct 120

tcaatcttgg agagcggcgc gtccccgaag aattagatca gccatggcca agcaaaagat 180

cgatgatcaag gtgccgatgg cgagcgacaa gtcccgggtcc aaggcaatgg cgctgggtggc 240

ggccgtgtgc ggggtcatct ccgtggccat cgccggcgac gacaaggacc aggtgggtcgt 300

cggtggcgag ggcgtcgact tcctcgagct catcaccatc ctgcgcaaga agatggggcgg 360

cgcgcacttc gtcgaggcaa tgact 385

<210> 14438

<211> 203

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-C1

<400> 14438

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gtccgcggcg ccccgggcgg ccggatcgtg atggagctgt cgccaacgac gtgcccacga 120

ccgcggagaa cttccgcgcg ctgtgcatcg gcgagaaggg cctgggcacg tcccgaagc 180

cgcgccctgcg acaaggggtc cag 203

<210> 14439

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-C10

<400> 14439

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ccacctgcat gtccatacaa gcctgcagct cagaagaacg atgagggtgc gagtgaatca 120
aaacccctgg ccgaaccgca cgggtgctggg gctgcggcgg cagaagataa gaaagtggaa 180
tgatgcagca ggcgcttaaa atgggtggcca cggctctgtg tggttagcta agaaacaata 240
attgttgtgg atggttatgt acttggttga tgggttgaac ttgttatgac actccggatc 300
cttaccagtt gcattactaa tcaotgctgc tggctctggc tgtctgaata gaaggagtt 360
gaacttgcag tcgcaaagt aatagcgaga gtgaatcttg ttgtccaagg ctttctgata 420
gaatataatg cttgaat 437

<210> 14440

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-C11

<400> 14440

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gttttagatgc taatgtggct gatatagtga ttagagagta tgtgagcttt attatggttc 120
atcttcagtc ttcttgcacc agctgtaact ttgaaagagg agagatagtg tcagaactac 180
ggaagagtcc tatattcctt acaaaccatg gatacaagag cccagctgat gaaccaattc 240
acttcagtaa agattatgga aattccgtgg atgctactag actcttcaga atgtagaaat 300
aagttggatt gaacttgata gtacctattt gcagcatcat gggtcacagt cgtcattcatt 360
tgactggaa aaatggaggc aattttttga agaaatgggt gtgactgatt ttgtgcaggt 420
agtgaagtt gaaaaaactt tatcccaag 449

<210> 14441

<211> 217

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-C12

<400> 14441

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gctcctacat attcagttac tatctcctca tctgagtctg acgaatctgg tacaacgtca 120
acagtttgct cacttactat ctcaatgagt tttagtcgca ctgccagcgc ctgcccaatc 180
aggctcagac tagtcgcgga tggatatggc aaatggg 217

<210> 14442

<211> 270

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-C5

<400> 14442

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aggctactgct gcaatcgacg tcaattgaga atgctgatgc tccaatggac cagcgcgagac 120
attcaaaagc acaggggtcc attgatccac agactcgtgg gagtgatagt ccagtgcctt 180
ctaagagcac ttaagctttt gcaatgttcg tgaaagcttg cagggtccatg cagtaaagga 240
ttgcttccac tgtgttgaac accttattac 270

<210> 14443

<211> 390

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-015-Q1-E1-C6

<400> 14443

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ctgctccgca aggcgcaggt ggaggagttc tacgtcatca cgtggacgtc cccaaggag 120
cagggtgttcg agatgcccac cggcggcgcc gccatcatgc gggaggggccc caacctcttg 180
aagctggcgc gcaaggagca gtgcctggcg ctccggcacca ggttgcgctc caagtacaag 240
atcacctacc agttctaccg cgtcttcccc aacggcgagg tgcagtacct ccacccaag 300
gacggcgtct acccgagaa ggtcaacccc ggcaaggag ggcgtcnngc cagaacttcc 360
ggcagcatcc ggcaagaacg tcaaccccat 390

<210> 14444

<211> 457

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-015-Q1-E1-C8

 <400> 14444

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 actgcacgca gctagctagg agcagcagca gcggcggcga tggcggcctc catgatctcc 120
 tcgtcagctc tggcggtggc gcctcagggc ctgccgccc tggcggcgcg cgctctctcc 180
 ttgcgcgtcg tctgtctcaa gaagaacatc aagaccgaca ggccttacgg gattgggggt 240
 ggctgaccg tcgacgtcga cgccaacggg agaatggca agggcaatgg cgtgtaccag 300
 ttgctcgaca attacggcgc gaacgtcgac ggatacagcc caatctacaa ctacgatgac 360
 tggctctcca ccggcgacgt ctatctcggt gggaacactg gggctctgaa ttgggcccgc 420
 accctcggcg ggaattctcg ccggggcgct cctcctc 457

<210> 14445
 <211> 452
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-015-Q1-E1-C9

 <400> 14445

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 caagacagga ataataatgg cggcgtcgac ggtggcgagc ctctctgtcc cggtgacgac 120
 gacgaccttc gcggcggcgg gcggcggcga cgtgctgac gtcgtcccga ggagggcggg 180
 cgccaagcgc gtcgtctggt tccccgcggc ggcgcgccgc ggcggcgggc ggttggtcgc 240
 cgtgcgggtc agcgggcccgc ccacgccgcc ggagatctcc gacaaggtgt cggagagcat 300
 caagcaggcg gaggagacgt gcgcggacga ccagaagggc gacgccgagt gcgcggcggc 360
 gtgggacgag gtggaggagc tcagcgccac ggccaaccac gcccgcgaca gcctcaagga 420
 gaccaacgcc aaacgaccgc tcgaaaagta ct 452

<210> 14446
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-D10

<400> 14446

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ggtacgcgga ccacgacgtg atatagatga ggtacgcacg gacctgctcg atgcgcccac 120
cgtccaggag ttgcggggcg cgtggggcg cgatgccaac gaggtgaaga ccgtcacgta 180
ccccatcttc ctcaggattg gcaactgtcag gtcagagtga gctgcacggg caaatgaaac 240
ttgacaaaact atggatacac tacggacgcg ccgacgattg atgatcgatc atctatgaat 300
cgatgcgtag aacctttttg aagaatgttc taatcgactg cagatgtttg ttcctcacaa 360
ctgtacttca aattccaatg catgcactat tctgttcgaa a 401

<210> 14447

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-D12

<400> 14447

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tagtgttctt acagatgaaa agtactttca ggggaagttt tacaacttgg aggtatatacg 120
caatgctgga gtccagtgcc ctcttctgtg caaagagttc attattgatg cttggcaact 180
ttactatgca cggccaagg gtgcagatgc tgttcttcta atagctgctg tattacctga 240
ccgcgatatc aaatacatgt tgaaaatttg caaaatactt gggatggctg ctttagttga 300
ggttcatgac gatagagaaa tggaccgtgt ttttaaggatt gatggtgtac agctcatcgg 360
catcaataac cgtaatctcg agacatttga agttgatatt acaaacac 408

<210> 14448

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-D2

<400> 14448

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gatgctcagg cattcgcgta aacgatgcgg agaagctcgt gacgatcgga ggccatgtgc 120
 tgccggaagg tgagtggctg tcgctgaatg ggtcgactgg tgaggtgatc cttgggaagc 180
 agccgctttc cccaccagcc cttagtgggtg atctgggaac ttctatggcc tgagtggatg 240
 atgttagaaa gctcacggtc ctggcaaacg ccgatacccc tgatgatgca atgactgcgc 300
 gaaacaatcg ggcacaatga attggagtac gcccgacaga gcacatg 347

<210> 14449

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-E12

<400> 14449

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 gatcctgaga cagctgctaa aagacttaac cttgactggg actctgctgc tgatatagat 120
 ggccaagagg aggacgatga tgaaactgaa gtgccgtctg cagtgggata tgggtgccttg 180
 tatttgttga cagcttttcc gggtattatt gggatctcag tcgtcctaata tcttttctac 240
 aattctctgc agtagctcct ccccttcttg agtgagaatg tgagatgttg ctgcattctt 300
 gtaaatctga gttacaaggc tagttaatca gtaacatttt ttacgccagt gttgcaaaga 360
 tatgacaact tgtatagatg tcaaaatcca aattttggaa ttgtagatac tttttttt 417

<210> 14450

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-E6

<400> 14450

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 cggctgtctt gcatgatgag ttgcaattcc caccgttgct gctgctagag agcatggaca 120
 ccatatcaca tgtaagatac gtgatcatat cagcacgggtg aacggtgctg cgctaacttg 180
 tactggcccc cgcaatgtga tccatgtcat gagacctaga catgctcccc ggcagaatca 240
 tcagcgtaa gtcagtgagc aacattcgat ctgctgctac cagtggcaat gcagtgaact 300

cgaaggtcga cgactccttc catgaactgt aggatcacga cctcgatcgc ttgatcacac 360
 acgatctgat gtagagtcgg tttgtcggag acgcgacaag attgtgagca tgtccaccac 420
 gctcaaacta cta 433

<210> 14451

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-E7

<400> 14451

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 cgtcgtccgc cttcggcgag gcccgcgta cgatgcgcaa gacggcggcg aaggccaagc 180
 cagcggcggc gtccgggagc ccgtggtacg gccccgaccg cgtgctgtac ctgagccac 240
 tgtccggcga gccaccgagc tacctgactg gcgagttccc gggcgactac ggctgggaca 300
 ccgcggggct gtcggcgac ccggagacgt tcgccaagaa acgggagctg gaggtgattc 360
 actcccgtg ggccatgctg ggcgcgctcg gctgcgtctt ccccgagctg ctcgccccaa 420
 cggcgtcaag ttc 433

<210> 14452

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-E9

<400> 14452

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 gcggcgccg tggcggcgac atcggggagg acgcggccgg cgcgccggtc cgtgctggtc 180
 gtgccgccc ctcgacagc gggcgcccg gcgcgggcca atgaggataa gggcctcggc 240
 gagaccatct tcggcttcat cttcacgaag gaccagctgg tggagacgga cccgctcctc 300
 aacaacgtcg gcgcgcgcc ggccgcccgc ttccgcgcca agacgaccgc cggcaagaat 360

gctgccggcg ggcacgacag cggcagccgc ggggggttca acct

404

<210> 14453

<211> 468

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-F10

<400> 14453

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gccgccgtgg caatggctgc cagcgccctg cttgccggcg gtgccatggc ccaggaggtg 120

ctgctgggcg caggcgacgg cgggctcgtc ttcgagccca gccagttcag cgtcaaggcc 180

ggcgagacca tcacattcat gaacaacgcc ggcttccgc acaacgtcgt cttcgacgaa 240

gacgatgtgc cgatcggcgt cgacgccacc aagatctcgc aggaagagta cctcaacgcg 300

ccaggcgaga cctactccgt caccctcacc gtgccgggaa cccacggctt ctactgcgag 360

ccgcatcaat gagccggaat ggtcggcaag atcacgtca actaagtaag ctagctatcg 420

atcgatatcc attcatgtaa tagctgttgc ctctgcctt gtccttcc 468

<210> 14454

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-F2

<400> 14454

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ggagtgggag acccgcgaga ggctgccgtg tacggaccgt aactcagcg tctgccaacg 120

agggataacg ggatcgccgg gatccgaccg atcaagcatg actgggagcc ggtcgttgtg 180

cggatgaatg caccaccgc cgccgccaac aaagatcaga aggccgtcaa cgccgcacgc 240

cgcgcccggt cggacatcca taccatgacg aactagcaac gctggtacga gataagcggc 300

atccagcggg acaaccctca atagcacacg cctctattac gacacctcct gacctcccc 360

<210> 14455

<211> 357

<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-F3

<400> 14455

tctataaaga atcgtaataa aatgggtgtcc agcacatgag caaggtaaaa atgattgggt 60
gcagtgcaga tccgacaagt tcatgtaatg caagtcacct ctcatgatag gaacttctcc 120
aggggaatat atctgaagca caggacgaca cgtacaagta atgtaagcca gtctcacgta 180
atggaaatct ctcacatgtgg atgtgggtcaa agcatacgat tttttttctc caattgttaa 240
ctgtacgcga atggaagcga cagatcattt gtacgttggt agggcttcaa agatcatctg 300
ctgctgtaca tggtttgttg ctgtcttggt aacatacatg ttttgttggt tctcaaa 357

<210> 14456
<211> 332
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-F8

<400> 14456

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agtagtacca ctcgaggaga gtacagagaa taatgctgct accataggag tagttgagga 120
gacagctgaa tgtgaaacta aggaggaagc accagacgag aaggggaaaa tataaaataa 180
tgaagatgct gacaaattag ctggagagac cagggcaggt gaaattacag ttgaggcacc 240
acgatgagaa aacagaactt aaagcagatg ctgacacacc agctgggtgag accaaagaat 300
gtgaaattac agtagaggca ccagatgaga aa 332

<210> 14457
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-G10

<400> 14457

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tttgtgatat ttctatgttg ttcattatga tctattctca ttctctttta aagacgaagc 120

cgtccatttt gcagcagtga gagattatta agtccacggt gaacgaaaca tgcacaaaat 180
 tacatgcgga ttgaggagac taaccataa gtcgactcac gtttcgacgc catcagctga 240
 agtcgcaccc aggcgctagc ctcatctcac aactacaaat ccaaaccgag cagtgggtcc 300
 ttgacgacac tgggctgaca catttctccg cgaagatcgc gtccaaggcg gacttcttgg 360
 gagacagccc ggagtactac ac 382

<210> 14458

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-G11

<400> 14458

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 cgtgtccgcc tctcgtcct ccaccagcgc cgtcgcggcg ctcccagga atgggcagca 120
 gcgggcgtcg tcgtcgttgt tctcctctc ctcctcttcc tcttcgtcg tcggcaagac 180
 gctgctgatg catgccgagg cagcccgccc gtcgttcgcc gtgcgctccg cggcggattc 240
 cgacaggccg atctgggtcc ccggcagctc cgtccgccc tggctcgacg gcagccttct 300
 cggcgacgtc tgctttgatg cctggggcct cggatctgac ccggagagcc tgccgtggaa 360
 catgcatgcg gagctggtgc actgccggtg ggcatgctc ggcgcggtg gtatcttcat 420
 cccggagtgc ctgaccaaga tcggcgtcct caacacgccc 460

<210> 14459

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-G12

<400> 14459

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 agagcagcgg cgatggcgcc ctccatgac tctcgtcag ctctggcggt ggcgctcag 120
 ggctgcccgc cctcggccc ccggcctcc tcttcgccc tcgtctgctc caagaagaag 180
 atcaagaccg acaagcccta cgggattggg ggtggcctga ccgtcgacgt cgacgccaac 240

tggagaaagg gcatcggcaa gggcgtgtac cagttcgtcg acaagtagcg cgcgaaacgtc 300
gacggataca gccagtccta caacgaggat gactgggtctc ccaccggcga cgtctacgtc 360
ggtggaacca ctgggcttct gatctgggcc gttcacctcg ctggga 406

<210> 14460

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-G3

<400> 14460

gggtgcggtt ggcacaaaag ttccaaagat ggcaaacatg ttagaagggtg gtggtaaaac 60
tcccatattg agccctgctg aacttgagga aattggtttc aggcctttag tatatccttt 120
atccttagtt ggggtatcaa tgcgtgcaat gcaggatgct ctagttgcga taaaagacgg 180
cggtgtacct ccacctagcg tcttgccatc ttttcaggag atcaaggata cattggggtt 240
taaccgctat tataaagaag agaaacaata ccaagtggac aagtgaagga agcagctgaa 300
gtctgatcct gtggattcag tcggatcgtg gccatggctt aatttcacc ggacatgctg 360
ggctttcacc ggacatgat 379

<210> 14461

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-G4

<400> 14461

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cccaagacca ccgcaccgca cctgcacacc gccagggatg gcggcaaccg cgcacctcac 120
cggtgtctc ggcgtgtcgt cgcgcctct cgttcgtcc cactgcagct gcagcggcgc 180
caagaagcag agctgctctc tgcgtcaggg gcggcagcag aggaggcgc tccgcgtcgc 240
ccgcgccgtc gaggtggacg cgccttcgc cgccgcaccg gagccggagg aggcggagga 300
gccgtccgtc gacttcgctt tcgtcagccc gcggctgctg ccggacggga cgccggacgt 360
gcactaccgg acagcgcgcg gcgggcagaa gctcaggac atcatgc 407

<210> 14462
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-G5

<400> 14462

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cggacgactg aaccaccgac agacaacatg gccgcctcgg cctccaccgt ctccggcctc 120
gccggcgctt ccttggccag ccgcccggcg ttctccacca gcttcacgcg gggcagccgg 180
gtgtcggcga ggaacccccct gatgagcagg aacctggaga ggaatggcag gatcacctgc 240
atgacgtttc cccgggactg gctgcgaggg gacctgagcg tcatcggtt cgggctcatc 300
ggctggatgg ggccgtccag cgtcccggcc atcaacggca acagcctcac ggggctcttc 360
ttctccagca tcggccagga gctggccac ttccgcacgc ccccgcccg t cactcccag 420
ttctggctgt ggctagtgac gtggcacctg gg 452

<210> 14463
<211> 279
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-G6

<400> 14463

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gacctgctg gtcctcatga tcatcaaact cgcgatcggc atcctcgcgc acgtcgactc 120
cttcgcgcac atcggacggt tccacagcgg ctctctcttc ggtacgtcc tcatcatctc 180
cctgcattac ggggtggatgc agcgctaggc cctgcccgtc gacgtcaact tcaacatcga 240
cacgtagttg gtctaccaat cggctctgct ggccgtggc 279

<210> 14464
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-G7

<400> 14464

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tcgacgagca ccgcggcgac aagggcaagc tcgtcgtgct ggacgtgggc ctcaagcact 120
gcggggccctg cgtcaagggtg ta'ccccaccg tgctgaagct gtcgcggtec atggtcgaca 180
acaccgtctt cgcgcgcatg aacggcgacg agaacgacag ctgcatggac ttcctcatgg 240
ccatgaagat cgtggagggtg ccacttttcg tcttcatcag ggacggccag atcgtcggcc 300
gctacgtcag ctccggcaag ggggagctcg tccgtgagat tctccgatac aagcgcgtca 360
cggtcaccta ctgaagtga ctactgaaca tcaaaccag 399

<210> 14465

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-G8

<400> 14465

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cttacgagga actcaagaga gctattaagg ctgcctctga gggcgcactc aagggtatta 120
cgggctacgt cgaggacgat ctggttgcca ccgacttcag cggtgacagc atgtctagcc 180
tctgcgatcc cgggggcagg attgcgactg caactaccag ttcacgcgcg tcgtcacgtg 240
gtaccaccac tcagtggggc caccggagcc ccgtcatcga gctgatccgt cagtcgatct 300
cgacttagtc aacacacagc tgtctgcgtc acgaacgccg gtcgtccaca accggactgg 360
gtcccacagg aacaatgcca cggatc 386

<210> 14466

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-G9

<400> 14466

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cgccttcctc ggcttcgcgc tgcaggccgc cgtcaccggc atggggccac tcaacaactg 120

ggccattcac cttagecgacc cactccatac gacacatctt cgacactttc tgacgaccc 180
 cttaatccccg tcattgctct gctccgtcca tcgacgaaa cgtgggtcttg aattaactat 240
 tatcgctatg agcctgcaga tggatcaacc cgtcatgcgt cgtgtcagtt tgtgatgaat 300
 gggagagagg gtattggaca acattgatca caccgtcgtg cttatgtctc gtttaattatg 360
 agagctacag ctccgatttg gcgatttgta atatatgaac cagtgatgaa taaatgcatt 420
 cacttggtca aaaa 434

<210> 14467

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-H11

<400> 14467

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 tgcattagct gcaggggacg ttcagggtat atatcctttg atcagctcca tccgatgttc 120
 cccatgcatg atgggttcgt tttgtccgct tacttctggc atgccagcgt agtgctcatc 180
 aagtacttga ctctcataca cctcatgga tacattgaac taattccaat acctgcctga 240
 tcac 244

<210> 14468

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-H3

<400> 14468

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 atcctgggta agaacggcgt caagttccgc gatgcggtgt ggttcaaggc cggcgcgcag 120
 atcttctcgg aggggtgggt ggactacctg cggaacccca acctggtgca cgcacagagc 180
 atcctggcca tctgggagtg ccacgtgggt cccatggggt tcgtccaggg ctaccgcgtc 240
 cggcgcggcc cgctccggga atggctccac aaagtgtacc ccg 283

<210> 14469
 <211> 347
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-015-Q1-E1-H4

 <400> 14469

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 ggggcggcgg catccggtcc tcttgacccc agccctctct ccgcggaggc cgaggccgaa 120
 cgcgccaaagc tggctcacgt tagcaaaaag ctagagaaca cagcacggga tttcaagaat 180
 gtgggcaccc tggggttctg gtcccaattg gtgtgtacgg tcgtttcggc cgggatcctg 240
 tcgtttctctg cggctgcgtac agggaaatgtc acaactccct tcacattcag tgcgaactgcg 300
 gttggcatcg tcgtgggctt catctgcgtc gtccggtcat ttgggtta 347

<210> 14470
 <211> 354
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-015-Q1-E1-H7

 <400> 14470

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 atcctgtcta agaaccgcgt caagttcggc aaggcgggtg ggttcaaggc cggcgcgcac 120
 atcttctcgg aggggtgggt ggactacctg gggaacccca acctggtgca cgcacagagc 180
 atcctgcca tctgggcgtg ccaagtgggt ctcaagggtt tctcgaggg ctaccgcgtc 240
 ggttgagcc cgctcgggga agggctcgac aacgtgtacc cccgcggcgc cctccaccg 300
 ctgggcctcg ccgaccaccc ggacaacgcc gccgagctca atgtgaacga cctc 354

<210> 14471
 <211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-015-Q1-E1-H9

 <400> 14471

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ggcttcgtcg gtggccaccg cggcgagcac attcctgggc accgccttg cggacccggc 120
gccgcagaac gggcgcatcg tggcccgggt cgggttcggc ggcggaagc ccaaggctgc 180
cgtcccgaag aagggtggcg agacgtcgat ctctctgac cggccgctgt ggttccccgg 240
cgccgtggcg cccgactacc gcgacggctc gctggtcggc gactacgggt tcgaccggtt 300
cgggctcggg aagcccgtgg agtacctgca gttcgaaactg gactcgctgg accagaacct 360
gaccaagaac gacgcggcg gcacatcagg caccgggttc gagtcctccg ac 412

<210> 14472

<211> 148

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-016-Q1-E1-C12

<400> 14472

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gcaaaggttg tcgattaaga agcgtatata gctggtgata acgttgcgac atccagacag 120
cgtgtaggat gcctatcagg cgaaacat 148

<210> 14473

<211> 209

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-016-Q1-E1-E10

<400> 14473

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tgcacgcttg gtatatcgta ctctcaattg acagagatgc aaccccgggc catttttcaa 120
tctgctatag caatgagcaa ccaggggtgtt caagtgttcc caaagataat ggttcctctt 180
gttggactat cacacgaacc gcacatca 209

<210> 14474

<211> 205

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-016-Q1-E1-E9

<400> 14474

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cagctcggat actatatctc ctatctgcac tggccatgcg aagcggtcca gtcctccca 120
ccgcggctat ggtcacggcc agcacctccg ggctcttcac gctgccctcc ctccgcgcct 180
tccctctttc ctgatctga cttca 205

<210> 14475

<211> 84

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-016-Q1-E1-F10

<400> 14475

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gagagcaacc aatcgctcgg ggcg 84

<210> 14476

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-016-Q1-E1-H10

<400> 14476

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tgctagctag gtagctgaat tcggagccag ggtcgagcta cgggggtggg aggggagatg 120
gaccaccctg cggacgcggg ccggacggac ctgacgacca tcacgcggcc cgtgcggaac 180
gaccacagtc tgaagcccca ctcccgggc tacttcatca tccgtctctc 230

<210> 14477

<211> 434

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-016-Q2-E2-A10

<400> 14477

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 cgtctgcaac aacgacacca tggacgagaa cctcaggagg gagctgttcg ggctgccgtc 180
 caggtacagg gactctgtgc gtgctatccg cccgggactg cccctcttcc tctacaacta 240
 ctccacgcac cagctccacg gcattcttga ggccgcgagc ttcggcgagg ccaacatcga 300
 cccgacggcg tgggaggaca agaagtgcc cggcgagtcg cgcttccttg cgcaggtgcn 360
 ggtggcaacg cggaagatct acgaccgcgt ggaggaggac gccttcggcc ccatcctgca 420
 aactacaac gggc 434

<210> 14478
 <211> 327
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-016-Q2-E2-A12
 <400> 14478

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 cactcaggct cagggtcgcg gttgccaagc cgctggcggc ccccatgcgg cgccagctgc 180
 tgcgcgcgca ggccacctac aacgtgaagc tgatcacgcc ggagggggag gtggagctgc 240
 aggtgcccga cgacgtctac atcctggact tcgccgagga ggaaggcatc gacctgcctt 300
 tctctgccg tgcggggtcc tgctcct 327

<210> 14479
 <211> 457
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-016-Q2-E2-A2
 <400> 14479

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 tggggtacct gtggagggtg cggctgtctt catttctgc cggcgcggcg acggcttcgg 120
 cggcgggggtt ctctctcttc tacaaggacc acctgctcgc ccgcgctgcc atcatcagcc 180

aggtggagga catcaaggaa acttctgaaa agcattatgc agccctaaat aagaggatat 240
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 ttgggcttat gtcatgggta catctgcccc tgtgtttttg attgctgcag gcggtataaa 360
 ctgcagcatt ttaagctgta ctattgtgtt gttgaaattc tatgaactct gaatttgaat 420
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<210> 14480

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-A5

<400> 14480

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 gggtcgaggt ggtagatctt aatgatgatg agtacggatc cacggatgaa gaagaccctg 120
 ttctcatgca aaaaaaacag tccaagatca tgaaacgtaa aacaaggcaa gggaaagctt 180
 tggagaagag ggcagcaaga tcaactcatgg atgtgctaca agaagcaa at ttggagtccg 240
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 gacgccacta ctgctcagtt tgcggtagct ctgcaacctc cacatgcgtg aggtgtggga 360
 cgcggttctg ttcatgccgc tgtcaagtca tacacaatga tacacgtgc ctgaagtttg 420
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<210> 14481

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-A6

<400> 14481

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 gcacctacgg cgaggtcctc gagtccaaga tcctctcga tcgggagacg cagaggtccc 120
 gcggcttcgg ctctctcacc ttctccacgg aggaggcgat gcggaacgcc atcgagggca 180
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gccgtggagg cggcggcggc ggcgggtacg gtggtggccg tggaggcggc ggctacggcg 300
 gtggcgggcg ccgtgatggc ggcggcggct acggcgggtg cggcggctac ggtggtggcg 360
 gcggcggcta cgggtggtgt ggcggcggct acggcgggtg caaccgtggc ggccggctacg 420
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<210> 14482

<211> 458

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-016-Q2-E2-A7

<400> 14482

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 gtggcgggtg cgcgcgcctc gcgcgcggc accttcgcgc tggtcaggtc cgccaaggtc 180
 gaccgctgcc aggagccgc cacgctagca gcaaccgagg ccaggccgc cgccgacgga 240
 cgccgcgcgc tcattgctgc ggctgctgc gcggccgtg cagccatcg cgccgcgcgc 300
 gccgccatgg cgggccccaa gaacgggacc cccgaggcga agaagaagta cgccgccatc 360
 tgcgtcacca tgcgcaccgc caaggtctgc cacaactgag cagcccgcg ttgcatgcag 420
 ctgcagggcc gnggggtgt atataattaa tgtacgtg 458

<210> 14483

<211> 453

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-016-Q2-E2-A9

<400> 14483

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 gttgcccgcg ccgcgatcgc caggcccaat gctctagggc tgctgcgct gagggcgagg 120
 agcgagaggg tgcggtgcag ctacgccaa gacgcggccc cagtcagcac caagggcgca 180
 ggcgcgctgc tgctcgccgc agcgggcgcg gtgaccgct cgccggggcc cgcgctggcg 240

ctcgtggacg agcgcacgtc cacggagggc accgggctga gcctcgggct cagcaacaac 300
ctgctggggg ggatcctcct gggggctctc ggctcatct ggtcncctca caccatctac 360
acctctgacc tcgacgagga cgaggagtc ggtggcctct cgctctagat ccactcctct 420
cctgttaatg atctgaatgt anacatgggtg gtg 453

<210> 14484
<211> 280
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-B1

<400> 14484

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aaacaggacg atatcgaaga cgacgagaag gcccaaccacg tggctccctc ttccgccacc 120
aagaaccgac ctccgcccgc gcacactggc gaagattcgg aggcctccga cgaataagag 180
gatatggacg cggacgacga gatgccgcag actaagcccc ctccaaatca ataggtggaa 240
gctaacgggtg cttaacggcc gagcgcgccg ttccaccgca 280

<210> 14485
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-B10

<400> 14485

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gacatggagc ccaatgtttg atctagtaaa tgtttttgaa gtattccttc cacagctgtt 120
gctgtaccca aatccttctg atccattaaa tggggaggct gcagcactga tgatgctga 180
tcggcctgtt tatgaacaga aagtgaagaa atattgtgaa aagtatgcta aaccagagga 240
cgctggcacc acccgggaag acaagtccag tgatgaagag cttagcgatg atgacgacga 300
cgacgacaat gactccgggg acgaagctat acttggcaat cctgatcctt agtctgagta 360
ggaaacagcg cagtcagggtc atcaatacat tgtccaattg cagaaactgc aagtaaacaa 420
aaactgaaaa actaaaaaga aaaaaaacct ctggatgt 458

<210> 14486
<211> 458
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB36-016-Q2-E2-B11

<400> 14486

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gaagcaccag tgectgatcg atggcggccc atgctctcct ctccggcccg cagctgctgg 120
gccgccccgt gcagtcggcc gtctctaggt cgtcggcgag gaaggcgccc ttcgtcgtca 180
gggccagctc cagccctcca gccaaagcaag gtgccgacag gcagctgtgg ttcgcgtcca 240
agcagtcgct ctctacctc gatggcacgc tgcccggcga ctatggcttc gaccgcgtgg 300
gcctctcgga cccggacggc accggggggt tcacgcagcc caagtggctg gcctacggcg 360
aggtgatcaa cggacgctac gccatgctgg gcgcggtggg cgccatcgcc ccggagatct 420
tcggcaagat gggcatcatc ncgccggaga tcgcgctg 458

<210> 14487
<211> 458
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB36-016-Q2-E2-B12

<400> 14487

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aaacatgggg aagcctgcga agatcggaga gtggggtgga tacgccggcg atcgtcggga 120
tctgagggct actccggacc ggctgatcga ggtgaaggct acggcggaca acagcagctg 180
catccgctcc atctccttca ttacatcgg agccgatggc aaaccgtacg aggagggggc 240
atgggggttc ggccatgctg gcacggagta caagattgat ctgtgcaggt tcgacgagag 300
cttgacggag atctccggga ccacggggcc agcctacaac attgacaatc tgggtcaagtc 360
tctcaaattc gtcaccaaca aacgcgctta cggaccgtac ggcaaggacg anggcacccc 420
gttccgtgtc aaggtgatga acaacggcca cgtcgtctg 458

<210> 14488
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-B2

<400> 14488

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gccttgacag ggtaccattc ttgttccatc cgacgcttca gttggtttgc cgctcttggc 120
gagcatcagt ttgcagtggc gaactttctca aaattcgtaa ccagattggg acgacagaag 180
agctcttgtg tgtgttggcg ttggaaccag aaaacatgtg gcaactttat gatcccctac 240
gagacaagtg gataactctt cctgtcatgc catctcagat taggaacata gcccgctttg 300
gcgtggcctc agttgctggc aagctctatg taattggtgg tggcagtgat cgagttgatc 360
cgcttactgg agatcacgac aggatctttg caagcaatga ggtttggtct tatgatccgc 420
tgcaccgtgt gtgggtcccag agggctccta 450

<210> 14489
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-B5

<400> 14489

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agctagctga cgaccatggc gtccctctcc tctgccgcca tcaccgccc ttccttcacg 120
gccgcgcccg ctgcgcgagt ggtcagcagg aggtccttca ccgtgcgtgc ctctctccgc 180
aaggccactg ccaccgcccg cgtggccggt gccgccagcg tcctgcttgc cggcggcggc 240
gccatggccc aggaggtgct gctgggcgca ggcgacggcg ggctcgtctt cgagcccagc 300
cagttcaccg tcaaggccgg cgacaccatc accttcaaga acaacgccgg gttcccgcac 360
aacgtcgtgt tcg 373

<210> 14490
<211> 456
<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-B6

<400> 14490

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atcgccatcc aatggccgcc accgccctga gcatgagcat cctccgcgcg ccgccgccct 120
gcttctcgtc cccactcagg ctcagggtcg cggttgccaa gccgctggcg gccccatgc 180
ggcgccagct gctgcgcgcg caggccaact acaacgtgaa gctgatcacg ccggaggggg 240
aggtaggagct gcagggtgcc gacgacgtct acatcctgga cttcgccgag gaggaaggca 300
tcgacctgcc cttctctcgc cgtgcgggggt cctgctcctc ctgcgcgcgc aaggctcgtct 360
ctggcttcgt cgaccagtcc gaccagagct tctcaacga caaccaggtc gccgacgggt 420
gggtgctcac ctgcgctgcg ttacccaact ccgacg 456

<210> 14491

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-B8

<400> 14491

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tcatccgcag ctctcgagtc tccagctcta gctagcctta gtctcgtcca agggacgaag 120
gggccaccat gagcgtggtg atcctggacg gctccacggt gcgcggcttc gtggcgagcg 180
aggcggcctt cgcgcgcagc ctggacgcgc ggctcgccgc gctggacgcc aacggcgacg 240
gcgtgctgtc ccgcgccgag ctccggcgcg cgctcgagtc cttccgcctc ctcgacggcg 300
gcggcttcgg gtccgccag ccggcgccgc tccccccga ggtcgccgcg ctctacgacg 360
ccgtcttcga gcagttcgac gccgaccaca gcggcgccgt cgaccgcgcc gagttcatga 420
cgagatgcgc cgcacatgcg tcgc 444

<210> 14492

<211> 482

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-B9

<400> 14492

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atccactcca ctcccaagtc cccaccaccc ccaaccccg tcttccactg cggcgcaggc 120
ttcgcttcgg ctccgctcgg ctcgagcaga aaatgcaacg ggagtgag accgtcaggt 180
cacacggcaa tgttcttaaa tatgctgttc tacaacacat cagcgtccc aagccagcaa 240
tgcttctctg tgctttttct cgtttcatgt cagtttcatc tgctgccta gaggatcgtg 300
gatttgaaac tgccactgta gcagatgtct tgaagtctaa agggaagagt gctgatggat 360
cttggtctcg gtgcaccaca gaggatagcg tctatgacgc tgtcaaact atgactcagc 420
acaacgtggg agctttgggt gttgtcaaac ctggacagaa taaatcaatc gctggcattg 480
tc 482

<210> 14493

<211> 474

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-C10

<400> 14493

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tagctaggag cagcagcaga gcagggcgga tggcggcctc catgatctcc tcgtcagctc 120
tggcgggtggc gcctcagggc ctgccgcccc tcggccgccc cgctctctcc ttcgccgtcg 180
tctgctccaa gaagaagatc aagaccgaca agcctacgg gattgggggt ggcctgaccg 240
tcgacgtcga cgccaacggg agaaaggga agggcaaggg cgtgtaccag ttcgtcgaca 300
agtacggcgc gaacgtcgac ggatacagcc caatctacaa cgaggatgac tggctctcca 360
ccggcgacgt ctacgtcggg ggaaccactg ggcttctgat ctgggcgctc accctcgctg 420
ggatcctcgg cggcggcgcc ctctctgtct acaacaccag cgcctctccc ggct 474

<210> 14494

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-C11

<400> 14494

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gacgacgaac gggtcgatgg ccacgctctc ctcttcgagc cgcttgagta gcggcaccgg 120
cgccgcggcc atccaccggc agccggcccg tgctggagcc gtcctcgtcg tcacctgcag 180
gcggagctcc tcgcgaccg tccgcgcgcg agccgctgcc acggcggcgg cgccggctgc 240
cgtagagctg cagaacaagg ggggtgctcgt gccgacgtgg gcggagtctg agctcggggc 300
ggcgccggtc tactggaaga ccagcagcgg cctcacgccc tcgcccggcg aggggctgac 360
cctgtttctac aaccggcgcg cgacgaagat ggccccgaac gaggtgttcg gcgtggcggt 420
caacggcggc ttcaaccagc ccatcatgtg cggc 454

<210> 14495

<211> 477

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-C12

<400> 14495

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tgtacatatt attcaaatgt tgctgattaa aaagcgtata cagctgggtga taacgttgct 120
acatccaaat agcgtgtagc atgcctagca agccaaacat attaccttac agcaagcctc 180
ccattgccgc ttcacacatc tttgctgcct tcgatacata aacagcacia atggattact 240
agcagggatt atagttctac aatatatgga atcacgatta tcaccgctga ccagagtcta 300
ctccttcgag gcgtggactg cggacacggt agagaccatg gaatcgacgc cgcacttggt 360
gcgaacgttg gaaccctgc atatcttgta gtatccgttc tccccccagt tctcgcccca 420
cgagttcttg atgatccagt aaggcttgct cttcaggcga atgggggcga aaccaga 477

<210> 14496

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-C6

<400> 14496

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cacctggcgg agcatccact gcgtcgcacg gtgccaggtc agctagtcac ctggagagac 120

tgcacgtcgc cctgcacgag gagcaggagc gctgacacca cgagcaggag caggaccagg 180

agcagcaaga ctcttccccc tcgcctcagc aggaggtgga gactaggagg ctgccttccc 240

ctgcacctca gccagagatg cccctgcact accatagggc atcccagcta ctgacggaga 300

cgacgacgac gttggtggca gttcgagcca tgacacgaag ctctaggagg agccagagcc 360

ggaggggatgg atcgctagac ccatcactcg cgacgctgct cctaagtgtc acttccacga 420

cgctctcaac atgctgctgc gttcggggcat cgactgaca 459

<210> 14497

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-C7

<400> 14497

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taagcgtgaa ccatggcgga cgagtacggc cgcagcggct acggcaggtc cggcgccggc 120

gacgactacg acagcggcta caacagcaag tccggcactg atgactacgg ccgtggcgaa 180

ggtggctaca acaagtcggg cggcgatgac gactacggcc gcagcggcgg cgatgggtac 240

ggcaggtccg gcggcgacga ctacggccgt ggcaccggcg gtggtggcta caacaagtcc 300

ggcggcgggc acgactacgg ccgcagcggc ggcgatgggt atggaaggtc cggcggcgac 360

gactacggcc gtggcaccgg cggcggcggg tacaacaagt ccggcaacga cggctacgac 420

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<210> 14498

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-C8

<400> 14498

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 agccggcgac cagcaccagg gacgtcttcg gcgaggggag catcaccatg cgcaagactg 180
 ctggcaagcc caagccagcg gcgtccggca gcccttggtg cggggccgac cgcgtcctgt 240
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 acggctggga caccgcgggg ctgtccgcgc acccgagagc ttctcgcaag aaacgccagc 360
 tggaggtgat ccaactgccg tgggccatgc tgggcgcgct cgggtgcgtg ttcccgagc 420
 tgctcgcgcg caacggcgct aagttcggcg aggccgtgtg 460

<210> 14499
 <211> 466
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-016-Q2-E2-C9
 <400> 14499

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 aaacatctgt atgctcaagt catcgacgac acaaagcaat gtactctggc ttcagcttca 120
 accatgcaca aatctctctc caaggaatct gaatactcag ctgggccaac gatcgaaata 180
 gcacaaaaga tcggtgaggt gattgccaaag tcttgcttgg agaaagggat caacaagggt 240
 gtcttcgacc gaggtgggtt cctctaccat ggccgcataa aggctctcgc tgattctgcc 300
 agggagcacg ggcttgaatt ctgagtcgct caggcgcttg ttcatatctc caggatcacc 360
 tgtaatcttc tttttttttt tctctccata tgccgaacag attgtagtca ctgcgcctgt 420
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<210> 14500
 <211> 467
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-016-Q2-E2-D11
 <400> 14500

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 cgggcttctt cattccgaga ccgagaattc ccggatgggt gatctgggtac tactggattt 180
 gcccaactggc atggacagtg tatgggctca tcgtgacaca atatggagac ctagaagacc 240
 tcctctcagt ccctggagaa agtgagcaga cgataagcta ctatgtaata catcattttg 300
 gataccacaa ggattttctg ccagtcattg cgccgggtct ggtactcttt gcagcattct 360
 tcgcgttctt gtacgcgggc tgcacaaaga agctgaactt tcagcaacga taagaaaaag 420
 atatagcaac aaaagctctt gagatttttt tggaaacact tcctttt 467

<210> 14501

<211> 464

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-016-Q2-E2-D2

<400> 14501

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 caagccatgg ccatggagaa ggcgcctcc ttctctctct ccctcttagg cggcgggcggc 180
 ggggagccgg cggcgactgt gaaatctatc ttcatatacc ctatcaagtc ctgcaggggt 240
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 gtggtgaacg ccaaagggcg agcatacacc cagaggggtg agcccaagct tgctctggtc 360
 cangtggagt tgccgccgga ggccttcgct gagaactggc agcccacgcc cgacgaccac 420
 ctggttatca gagcaccggg aatggacaca ctgaagatac ctct 464

<210> 14502

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-D3

<400> 14502

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 ccacctgat gcagccggcc aagatcggcg gccggggcgc ctttgctcgc ctgccgtctc 120

gcccgtcgtc gcaactcgcc tgcagggcgt tcggcgtoga cgcggcgcc gccaggatca 180
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 tgacctacga cgagatccag agcaaagcgt acatggaggt gaacggcacg ggcacagcga 360
 accagtgcc gaccatcgac gggcgcgtagt agtcgttccc gttcaatgcc ggcaagtaca 420
 acatgaagaa cctgtgcct 439

<210> 14503

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-D4

<400> 14503

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 gactactgct gcaggacgcc gactggcagc gggatctgct acgtgagggg gccaccacg 180
 tgcccgcgcc cgcgccgaa gcgcgcgcc cgcgcgcca tgtgcacgaa gcgcctcctc 240
 caggcggcgg atcagcccggt tgcgtggaggc cgggcccgtc cctgttacta gcagccgct 300
 cgacgagctg gagcggctct 320

<210> 14504

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-D5

<400> 14504

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 tcagccggcg gcggcagagc gggaggaggg agaacgcttc ggtccccccc aacccaacct 120
 cctccccctc ccgacaaggc gacgcgaagc gagatgccgc tgtacgactg catgctgctg 180
 ctgaagacga cggtgaccac ggaggtccta gcggaactgg tgacgcgggt ggcgcgccgc 240
 gcatgccagc gcaacggggg cgtcacgcac gtcaagtcac tcggcaaggt cagcctcgcc 300

tacgggtatca ggaagctcga ccgcccgcac ttccagggcc atcttatgca cgtg 354

<210> 14505

<211> 446

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-016-Q2-E2-D6

<400> 14505

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tgtttgtgct attggctggt tatcttccgt tccatgataa gaacttgatg gacatgtata 180

agaagattga gaaagctgac ttcaaagtgc caagttgggt ttctaccgat gttcggagggc 240

ttttgcaaag gattcttgat cctaacccta gtagaaggat ttcgggtggaa aaaatcatgg 300

agaatccatg gtttangaan ggtttaagtg canagctact taagtacgat ttacagaata 360

agaatgcccc tcatgtggac aagaaggcag attttgattc actgagcacc aacgtaacaa 420

ctgagagcaa gcaacatgaa gaaaag 446

<210> 14506

<211> 462

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-D7

<400> 14506

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tcctgctgaa gccgtccatg gtgacgcccg gcgcggaggg caaggacagg gccaccccg 180

agcagggtggc cgcgtacacc ctcaagctcc tccaccgcgc gatccccccc tccgtgcccc 240

ggatcatgtt cctctccggc gggcagtcgg aggtggaggc gacgcagaac ctcaacgcca 300

tgaaccaggg gcccaaccgg tggcacgtgt ccttctccta cgcgcggggc ctgcagaaca 360

cctgcctcaa gacctggggc ggccagccgg acaagggtcaa ggccggcgag gacgcgctgc 420

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462

<210> 14507

<211> 454

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-016-Q2-E2-D8

<400> 14507

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gcgacggcac agtcgacgcg gcaaaaggcgg ccggcaggcaa ggagcccgta agcccgggca 180

ctccgtcctc ggtggccgcc ggccgcagca gctgtgagga gaggcgcgcg gtggacggcg 240

tcgccctgcc tgggtggaag ctgcagccc tctgccagga gtctgcccg tcgccggcca 300

tgaggcgcg cttccctac tacttctgaa gcttcncgtt gcagtcctgc gtgatcagat 360

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<210> 14508

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-E1

<400> 14508

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gctgcgacgc cgtattcacc gacgatgaca accgcgaggg ctctgcca taccaccct 120

ccgcacctat gtttcatgac ggcataaaag aatggagctg ctgcaagcaa agaagccatg 180

atttcagctt atttttgcag atacctggat gcacaacagg aaagcataca accgaaaaac 240

caatcacaaa agctgtttca tctaaccgta caaaggcaac accgatccag tectctaagc 300

agggtgtggg agttgatgtg tgtgcaaggt gtcgtcaagg tttcttttgc tccgatcatg 360

gatcacagcc caagccacaa aagccagctg ctaccgacga tacaacaag gaacctgttg 420

agaaatcagc tgttccaccg cccaagg 447

<210> 14509
<211> 460
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB36-016-Q2-E2-E2

<400> 14509

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gtaccgggtg gtggatcgga acccggcctt caccaagggtg gtcggcaact tctctgcgct 180
cgactacatg cgctctctcca ccctctccgc cgtctccgtc accgttggct acctctccgg 240
gatcaagccg gggatccggg gcccgtcgat ggtcacgggc ggcctcatcg gggtcattgg 300
agggttcatg tacgcctacc agaactccgc cgggcgccta atgggattct ttcncaacga 360
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<210> 14510
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-E4

<400> 14510

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ccatgcgggtt gctgggtgga cgacgatgag gaggagggga gctgcagggg tcgtgcgagc 180
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attcatgggt ggtgtgtttg ctggcctctt gaggttgac ctgaatgagg atcctctcaa 300
ggaatggata agtcggacag tggaggcttc tggaatagct gaggaaaaca gctctgaaga 360
atcaagtgag gcagatcaaa atgatgcacc tcagcagatt gagattgagt gagaagaact 420
gcacatgaga acaggggaaa ggctcctcaa atac 454

<210> 14511
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-E5

<400> 14511

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ttctagaacc ttctcagat gcagagcgcc gcggctttcc ggccatgcc cactcggtc 180
ctggtgagca gcccttgtcg cccctcctc tcggcccgcc cgcttcgtgc ctccgccgt 240
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ggggatgctg tggcggtccc gaaggcggaa gaacgaggcg ggctcatgaa gacgctgtgg 420
ctcggctcgc tcttcggcct ctggtacctg ttcaacatc 459

<210> 14512
<211> 101
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-E6

<400> 14512

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<210> 14513
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-E7

<400> 14513

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tccccagcgt aggtggetgg ctgtgcctcc ccttgccggg gtcctcggtc tccctgctcg 180
 ttgacccta gggaaaaaac atctccctca cggctgctcc catggctgcc tgcagcccta 240
 gccgagctcg ctctccccgc ccagcagcaa gcagctcctt tcccccgcc atgaacgtcg 300
 tcgatctcct actgcagttc ctccacgtgg tctggtcgtc gaccgcgcgc atcacctact 360
 cgtgggttatg gaaaaccagc aagcctctcc tcacggtgta gtttcctcac gtcctcggtc 420
 agcccgatga ggacctactg tctccttg 448

<210> 14514

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-E8

<400> 14514

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 accactacaa gaacgcgcgc agcggcttct ccgcgaagct caccocctag caggtaagg 180
 atctcaagga gcaaccaggt gttctccagg ttgtgccgag ccagacttac cagctacatg 240
 gtcctgggtc tggcaactcac cagggaacga cacacacctt gggccttatg tgaaggcgta 300
 tgagaatcaa gaagactgtg tttagtatgg ctgtatggca caggcttgac gaatgtgtat 360
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 gccctgttc 429

<210> 14515

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-E9

<400> 14515

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 taagataacg cccatctgca cgggcaaccc aaacctttca acctcttcca acggaagcaa 120
 tggcaacgac aacaacttcc cggctcttct cctttccttc cttcgggggt tccttccttt 180

ccccaaccga ttttaaaagt ctctctcggt ccgagccctc tcccgaagtg ctctctctc 240
 tggcggcctc cctttcggct cccaatcgc ttcaagcggg tacgggaact gtgcggcgac 300
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<210> 14516

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-F10

<400> 14516

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 tegttttctc cgagccagca gctgcgccag gccgggtgcc ggagcctcgc tgcggcgggc 180
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 cgccttcgtg ctccgctct cctcttcgt cggcacgctc gtcaccgccg ccgcgctcgc 300
 cgactacctc gacgaccgt tctgagggga gatggagata gaccgttcga tactggatga 360
 gaatgaggcg tccgacga 378

<210> 14517

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-F2

<400> 14517

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 ctttgatgat ctgagctcaa tggttccacg ggtaagcac ttggctatcg aagagtccaa 180
 tgtcacgaaa gccattttgt cgagatatca tgtccgtgca ctacctcca taataatagc 240
 tgcagctca tacatattct gggcgctcag ttcgaaagat ctgcactctc tagtcaacct 300
 ttacactgct gctacgggtc aagaaccagt cgcatatatt ggtactcgca agtggagggc 360
 cgcgcaaagc acagactatg ctaagatttg gaacagctcg attagtgaag cagtgaagca 420

agaaccctgc ctagcattca

440

<210> 14518

<211> 427

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-016-Q2-E2-F3

<400> 14518

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atggtgtttgc tctgcgtgct cgtctccttc ctctgatgc ccttggcctc cctagccctg 120

acgcaggact tctgcgtcgc cgacctgacc tgcagcgaca cgccggcggg gtacccgtgc 180

aagtccagcg tcaccgccaa cgacttctac ttccacggcc tggccggcca gggcaaaata 240

aaccactca tcaaggccgc cgtgaccccg gccttcgtgg gccagttccc gggcgtcaac 300

gggcttggca tctctgcggc caggctcgac atcgaggtgg gggcgctcgt gccgctgcac 360

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<210> 14519

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-F4

<400> 14519

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gccacaacat gtgagctcct cctcttaagc cgttgccatc tccctcctcg gccaccttta 120

ccggccccct ctacttctg gctcccaagc ttcagccatg gagcacgacc cctccttgcc 180

tctctgtagc gtcaggacct cctccgagct cgacaaggat gtgctgtgtc tccccagta 240

ccgacctgt cgagctccgg tgacctctc ccacagcaca gcacgccgac gccctgcat 300

atgctcctcc accgggggttc tctccagca gcacttccc gtacgctgag ctctgctgag 360

ccgttgctcc ctctgctccc agcttcggca gccgagctcc aaccaggac gtctagcgcc 420

caggacgtac ggccccctgc tctctatcc acgacgcaga g 461

<210> 14520
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-F5

<400> 14520

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acatggccgc cgccaccatg gctctcactt cccgcgcgct cgtcggcaag ccggcgacca 120
gcaccaggga cgtcttcggc gagggggcgca tcaccatgcg caagactgct ggcaagccca 180
agccagcggc gtcgggcagc ccctggtagc gggccgaccg cgtcctgtac ctgggcccgc 240
tgtccggcca gcccccaagc tacctgaccg gcgagttccc cggcgactac ggctgggaca 300
ccgcggggct gtccgcccgc ccggagactt tcgccaaaga ccgcgagctg gaggtgatcc 360
actgccgctg ggccatgctg ggcgcgctcg ggtgcgtgtt cccggagctg ctgcccgcga 420
acggcgtcaa gtccggcga 439

<210> 14521
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-F6

<400> 14521

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aagctgaaaa ttttcgtaac gaccgctgct ggtgtctcta caggcattga agttactcct 120
agatggaatg gtggacacga atttgtaact actttagggtg acgctacgat ttgtgtgaag 180
gttacttggt cgatggtaga tccacggctt taaatggggt cgctgttcg ttgttaagca 240
tcacgggtgg aagtgtagta gtgctcttgc tctggtttgt tgtctgaggc tgttggaagc 300
tagataagta taacagtgtt cacactatca tgcccgctcct gttatttagt gaaccttaat 360
ttgtctaagt ttgctactct tgttatttat tgaaccttag tttattctag ttgcattgga 420
aaaa 424

<210> 14522
 <211> 454
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-016-Q2-E2-F9

 <400> 14522

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 gagaggatca gctatTTTTat ttccagcaaa gaggggtaga tcatgaaaag gctgttgccg 180
 ccatgattgg tggattctgc agatcggttt tcgagcacct tccctatgaa ttgcgcacagg 240
 aggtggacgc actcatgaac cttaaacttg aggggtcagt tggctaattt gttggctcag 300
 cgactgcgtg caaaactcca tgacagccag ttacctagaa aatccatgtg tacagcagta 360
 cgagaagaat gaagtgcacg atagatatat atatacattt cctggcttgt aatactgaat 420
 gttcacatta tgcctatggc aattggcaac gaag 454

<210> 14523
 <211> 347
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-016-Q2-E2-G11

 <400> 14523

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 gagaacaacg tcatgttcga gggcatcctg ctgaagccgt ccatggtgac gcccggcgcg 120
 gagggccaagg acagggccac cccggagcag gtggccgcgt acaccctcaa gctcctccac 180
 cgccggatcc cccctccgt gcccgggatc atgttctct cggcggggca gtcgtaggtg 240
 gaggcgacgc agaactcaa cgccatgaac caggggcccc acccgtggca cgtgtccttc 300
 tcctacgcgc ggccgctgca gaacacctgc ctcaaaacct ggggcgg 347

<210> 14524
 <211> 454
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB36-016-Q2-E2-G2

<400> 14524

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ctggtatgtg ccacccctg tgctggtgac cagcgtgca gttctccac ctgccatgg 180
ctcggacgtc cttaggagtt gctggcccgat atgaagcttg ttccgtaatc atctcagagc 240
tcccaaaata aagagcgaag attcaagatg aaatgggtgc taaagaggac tctactccaa 300
tgccctgctca tcaagtggat ggagccatct aactgggggt taatacaggg atttagacct 360
ccgtctccgc aacaaagggtg ttgaggagta ctcanagtga ttccggacgt ggacggcatt 420
tccagtactg ggggacgatt agttacgctt gtgt 454

<210> 14525

<211> 438

<212> DNA

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<400> 14525

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gcggcgccgc catcatgcgg gagggcccca acctcttgaa gctggcgcg c aaggagcagt 180
gcctggcgct cggcaccagg ttgcgtcca agtacaagat cacctaccag ttctaccgcg 240
tcttcccaaa cggcgagggtg cagtacctcc accccaagga cggcgtctac ccggagaagg 300
tcaaccccg cagggagggc gtcggccaga acttccgcag catcggcaag aacgtcaacc 360
ccatcgacgt caagttcacc ggcaaggcca cttcgacta atcacacttc acgtacgccg 420
caagccccag ccgggatt 438

<210> 14526

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-G6

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tcgaggtgaa ggtcacggcg gacaacagca gctgcatccg ctccatctcc ttcattctaca 180

tcggagccga tggcaaaccg tacgaggagg ggccatgggg ttctggccat gctggcacgg 240

agtacaagat tgatctgtgc aggttcgacg agagcttgac ggagatctcc gggaccacgg 300

gccagccta caacattgac aatctggtca agtctctcaa attcgtcacc aacaaacgcg 360

cttacggacc gtacggcagg gacgagggca ccccgttccg tgtcaagggtg atgaacaacg 420

gccacgtcgc tggcttcttt ggccgctctg gagattgcc 459

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<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-G8

<400> 14527

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gctggggcat ctccccctgt cagtggttct ggtggaccaa attggttccc tgccctccca 120

actattgggt caaaaatattc aagagcaagt agagccagtg cagctactgt gcatggaaat 180

gagaatgatg ttgaagagct agagatgttg ctggaggcat atttcatgca agttgatggc 240

acattaaaca aattgacaac gttaagagag tacatcgatg acacggaaga ttacatcaat 300

atccagcttg ataaccaccg taatcagttg atccagctag agttattctt gagttctggt 360

accgtctgtc tgctgctgta ctcatagtt gctggagtct ttggtatgaa tattccgtat 420

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<223> Clone ID: LIB36-016-Q2-E2-G9

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 ggtgtggccc gggaaactgt cctcctcag ctacgacgac ctcgcgcct acctcgagtc 180
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 cgaggccgtg tcggggcttc cggtcgtcga cagcggcctc agatgcgtcg gggatgatcg 360
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<210> 14529
 <211> 459
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-016-Q2-E2-H12
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 ggatcatcacc gaccgggaga cggggaggtc tcgcggttc ggcttcgtta ccttctctc 240
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 cggtcgcggc ggcggcggct atggtggcgg gcgccgtgac ggcggttatg gcggcggtgg 420
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<210> 14530
 <211> 458
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-016-Q2-E2-H2
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gttcgcctc caagacgcac cgaggctgat ctccctgcac cgtgccaggg ccgcttcgga 240
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cgttgaggac aagcccaccg tctcctgta cggcggcggc gccgtcgtcg cgctatgggt 360
gacgtccgtt gtcgtcggcg ccatcaacgc cgtgccgctg ctccccaaga tcttgagct 420
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<210> 14531

<211> 464

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-016-Q2-E2-H4

<400> 14531

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cgtggacgtc cccaaggag cacgtgttcg agatgccac cggcggcgcc gccatcatgc 360
gggaggggcc caacctcttg aagctggcgc gcaaggagca gtgectggcg ctcggcacca 420
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<210> 14532

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-H6

<400> 14532

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 ggcgtccggc agcccatggt acggtgccga ccgcgtcctg tacctgggccc cgctgtccgg 240
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 gctgtcggcg gacccggaga ccttcgcca gaaccgcgag ctggagggtga tccactgccg 360
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<210> 14533

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-H7

<400> 14533

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 gccgcggccc agaagaggag cctgctgctg gcgacggcct ccgagacgag gggagtcgcg 180
 ccggtgaggt ccagcgggat cgagacgagc acggtgggtc tgggatgtga ggccgtcacc 240
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 aaggtcgtcg tcctcgacat gtacaccgaa tggcgcgggc cttgcaaagt gatggctccg 360
 aaattccagg agatgtctga gaagaacctg gatgttgtgt tcctgaagct cgactgcaac 420
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<210> 14534

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-H8

<400> 14534

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cctggccaag atcgtgtcta gagcgctcgg aaaatgcaac ggcgggcgcg agagatggcg 180
ggaagggagg ctggagctgg actttgatca cgccttgggc tgtcagccca cggagaccca 240
ctacatgcgg ccggtggcgc gcacggtgac cttcgccagc aacaactcca tctacgtgat 300
cccgccgtcg ccgtcgccac aaccgcagca gcagaacgca ccagcagagc cacagcgacc 360
ccaaacgccg ccccggcacg agcccgagca gcacgacggt gcacccgaat cccaacccca 420
agccgagcaa cccgaggcac ccgcgcagac ggaaga 456

<210> 14535

<211> 446

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-016-Q2-E2-H9

<400> 14535

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tgtctacta cgatcatgtg cagaagcgcc atgaggagaa gggctgccta tatgcatgcc 180
tgttcaactgc gtgctgctgc ttctgctgct tcgagacctg tgagtgctgc ctcgaggcca 240
tctgctgctg ctgctagttc tgcttgagg gcctggcggt ccctcatcgt ggagatgtgg 300
ccatgcggga cnaccaccgc cgaataaaat gctgtactta tatgcacgca cgtagaaaat 360
gcattagtgt ctgtttgatg tgatcttggt tgtgtgtgaa atgcattagt gtctgtttga 420
tgtgatcttg tgtgtgtgcg cgcgca 446

<210> 14536

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-A10

<400> 14536

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agtgaacatc aggtgcgcga tgattcagat agactgcacg cacacgaaag gcggcctctg 180

cgtaggattcg gtcgtgggtga aaccgcagca gctctcgcag aacagagcgc cctggactta 240
 cgtagtagact cgtagaaca gttgctgctg ctgtctacgg acgatggata tgatgcacag 300
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<210> 14537

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-A12

<400> 14537

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 atcaatgctg cctacatgca gacatacatc ggaggcgtgt catgcccata catctgtggc 180
 aggcaccttg accatgggtg tctccttgtt ggatatgggtg cttctgggtt cgccccatt 240
 cgctgaagg acaagcctta ctggatcatc aagaactcgt ggggcgagaa ctggggggag 300
 aacggatact acaagatatg caggggttcc aacgttcgca acaagtgcgg cgtcgattcc 360
 atggtctcta ccgtgtccgc agtccacgcc tcgaaggagt agactctggt cagcggtgat 420
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<210> 14538

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-A2

<400> 14538

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 ctccacgagg ctggcgggga tcgggcacgc tctcttctt ttcattgtcgt cggcgcgcga 180
 caaggtcggc tacgtttacc ccaacgtcaa cagcgtcggc gcgggcctct tcctcaacga 240
 gatgttcaag gcgccgacta acaacctcgc cgacggcggg taccacatgt ataaagacat 300
 gctggagtgg atcggccggc cggcgaaaaa cgttccccag cagccgacac agccgctgcg 360

ggtgtccatc tccaagaagc tacgggcg

388

<210> 14539
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-A6

<400> 14539

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tgccagggtgg tgctcatggg cgcgcgtcgag gggtaccgca tcgcgggtgg ccgcgtcggg 120
gaggtgggtcg acccgcgtgta ccccgggcggc agcttcgacc cgctcgggct cgcgcgacgac 180
cgggaggcgt tcgcggagct caaggtcaag gagatcâaga acggccgcct cggcatgttc 240
tccatgttcg gcttcttcgt gcaggccatc gtcaccggca aggggtcccgt tgagaacctc 300
gccgaccacc tcgctgacct tgtcaacaac aacgcctgag cctacgctac caacttcggt 360
ccccggcaag tgagccaggg catatacata cttgtatgcy tgttcgtag acatacgat 420
tcgtatatgt ac 432

<210> 14540
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-A8

<400> 14540

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ctctgcgctc cggctgagtt gctgatttgg gataatcatg ttctctctga gtgaatgaac 120
atgtctggga atgatgataa gccacatgct gctgcaaaca gaataaaggc agccacgtta 180
tcagtgaacta agggattgag cagggtctca gctgaatggg ctgcgactgc tgctacccgc 240
aatgtgaatg cctatgggca gaaggaagac ggacgaagcc gctggcagga gacgaagaaa 300
gccaagagtc agatgtatct gatgagtaca gacaagggtg cgatgctggg cactgtga 358

<210> 14541
<211> 426

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-017-Q1-E1-B10
 <400> 14541

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 acgaccccgga ggcccttcgcc gagctcaagg tgaaggagct caagaacggc cgccctcgcca 180
 tgttttccat gttcggtctt ttcgtccagg ccatcgtcac cggcaagggc ccgctcgaga 240
 acctcgctga ccacatcgct gacccagtc aacaacgc atgggcctac gccaccaact 300
 tcgtccccgg caactaagct caacggctat gctatgcaac ttcattgtct ttcggatcgg 360
 agagggtgta cgtacgtgga ttgattgatg ctgcgagatg catgtgtgtc ttttgtgtca 420
 cgttgc 426

<210> 14542
 <211> 420
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-017-Q1-E1-B11
 <400> 14542

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 aggaggctgt taaggcgctc gacgcccaga tcgcctcgct cagtgatgag atcgtcaaga 180
 aggtgctccc atccgcgtga tgaaacaaaa cgggccctgc cttatcctac gactatagtt 240
 atatgaacat cataaattaa tgataatttt gaagaaattg gccgatgact ccgacactgt 300
 actcatgaaa gattattgga tgggttgtgt ccaccgctg tgttgggtgt ggattgttgt 360
 agactcgag tgatctttct cgataagctt gtacagttca gtacatacag acacacattg 420

<210> 14543
 <211> 337
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-017-Q1-E1-B2

<400> 14543

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tggacggcaa caccctcaac tacttcggca acagcatccc catcaacctg gtggtggccg 120
tgatcgcgga ggtcatcctc gtcggggggc ccgagtacta ccggatcacc aacggactgg 180
acctagagga caagctgcac cccgggtgggc ctttcgaccc cctgggcctg gccagcgacc 240
ccgaccaggc cgccatcctc aaggtgaagg agatcaagaa cggccggctg gccatgttct 300
ccatgttcgc cttcttcac caggcctacg ttaccgg 337

<210> 14544

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-B3

<400> 14544

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tgctgaggat ttccggtgctt cattaagggt ctgggagtga gaagatgagg atcaactgct 180
gcagcatctg gcgcaacaag gcactgagga ggatgtgttt cagtgaagg ggtgctgtga 240
gcagcaccca gtgtgtgctc acatcagatg ctggcccaga cactcttacc gtccgaacat 300
cctttcggag gaattatgct gatcctaacg aagtcactgc tgtcattttg ggtggtggta 360
ccgagactca gcttctccct ctcaagca caaaggctac ccatgcctgt ggaggctact 420
ggttggttct acggcacagc aagacgtcgt taaa 454

<210> 14545

<211> 165

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-B4

<400> 14545

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gatgggacaa aagggaacat tgttccaaat aacgggtcca aagtagaagg aatgttaagt 120

cctttgggac aagccaatca cagtggcaag gcacctgttc cgaat

165

<210> 14546

<211> 95

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-B6

<400> 14546

cacaggacca ggactcgcgg ttcgacacaa gcctctaaac agacgccgcc cacgcgtccg 60

gcaccatcct caatggagaa ggacgatggt ttttt 95

<210> 14547

<211> 453

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-017-Q1-E1-B7

<400> 14547

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cggcaccggc ggcgagtcca tctacggcga gaagttcccc gacgagaagt tcgtgcgcaa 180

gcacaccgcc cccggtgtgc tctccatggc caacgccggg cccaacacca acggctccca 240

gttcttcate tgcaccgtcg cgacccttg gtcgcacggc aagcacgtcg tcttcggcca 300

ggtcgtcgag ggcattggacg tcgtcaaggc catcgagata ggtgggcacc gcaacggctc 360

cacctccaag gtgggtcaagg tcgtgactg ccgacagctc tcttagatct ctctgatctg 420

gtctgttcng ccgcccctcc tccgtcatcg tcg 453

<210> 14548

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-B9

<400> 14548

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 acgcatcgggt gccgttcgat gaccagtgtc ccatcctgga gaaggaggcc gtgaacgtgt 180
 cgctccagaa cctcaagagc tacccttcg tcaaggaagg gctggccggc gggacgtca 240
 agctggttgg cgcccactac gacttcgtca aagggcagtt cgtcacatgg gagcctcccc 300
 aggacgcat cgagcgcttg acgagcgggt tccagcagtt caagggtcaat gtctatgaca 360
 agaagccgga gcttttcggg cctctcaagt cgggccaggc cccaagtac atggtgttcg 420
 cttgcttcga ctcccg 436

<210> 14549
 <211> 399
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-017-Q1-E1-C1
 <400> 14549

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 gccacctggt ggccgcccgc gttccgcct gggcgccgtc ggccaagccg cggcagctaa 180
 gctcacagct cgcgctgccg ccgtcgtcct ccgcgcgcgc gggcccgctc cgcgcgaccg 240
 ccggggaggc ggtgaccgat gaggcggccc aacgggttcg tgggcccgcg ggctggaccg 300
 cagtaggccc tctccgatcg tctgcggcag cacaggcggg ctgctccgca aggcgcaggt 360
 ggaaggagtt ctacgtcatc acgttgggtg tcccccgaa 399

<210> 14550
 <211> 445
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-017-Q1-E1-C11
 <400> 14550

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caagtctgca ggaaaggatg ccttccacct tgggtccgg gttcaccct tccatgtcct 180
 tcgtatcaac aagatgcttt cgtgtgctgg ggctgatagg ctccagactg gaatgagggg 240
 tgcctttggc aagcctcagg gcacctgtgc taggggtggac attggtcagg tactcctttc 300
 tgttcgatgc aaggacaaca atgctgcaca tgccagtga gctctgcgac gcgccaagtt 360
 caagttccct ggccgcaaaa agattattga gagcagaaa tggggcttca ccaagttcag 420
 ccgtgccgac tacctgaagt acaag 445

<210> 14551
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-C3

<400> 14551

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 cattcctggg caccgcctg gcggaccgg cgccacagaa cgggcgcac gtggcccggg 120
 tcgggttcgg gttgggcggc aaggcgaagc ctgctccgaa gaaggtggcg aagacatcga 180
 cctcctctga ccggccgctg tggttccccg gcgcgctggc gcccgactac ctggacgggt 240
 cgctggtcgg cgactacggg ttcgaccgt tcggctcgg gaagcccgtg gactacctgc 300
 agttcgagtt ggactcgctg gaccagaacc tggccaagaa tgaggcggcg gcatcaaccg 360
 gacccggttt gactcctccg aagtcaagtt caccgcgtt cagccctaca ccgaggtg 418

<210> 14552
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-C4

<400> 14552

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 cctcttcaa cccgtcggc ttccgcaaga ccgagaagga gatgaatgag ctcaagctca 120
 aggagatcaa gaacggcagg ctgccatgc tgcctcct cggttacttc atccaggggc 180
 tcgtcaccgg cgttggcccc ttccagaacc tgcctgacca cctcgccgac cccgtcaaca 240

acaacgtgct caccagcctc aagttccact agaacgttgg tgcattcagca tacctgctgc 300
 cgccgcccgc agttgtttgc tgtggaaagc tagatgcatg cgtgttgtaa aggggaactga 360
 agcgttgcatt cggatcatgat tcatgcatgg ccagcctgct gccggtaaaa caaactagta 420
 ttga 424

<210> 14553
 <211> 344
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-C6

<400> 14553

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 gggaatggag gagatcatca cctgtcttgc cgaccctaga gatgtccaaa ctgcagggaa 180
 attaaatctt catgtgtaat tgtgctcatt ctgtttcaat catctcaaca tccgatcatg 240
 aatctcttgc attattaact ggctcgatcg tcttctcagt ttaagacatt ggaggctgct 300
 ttgtttgttt cagacgtcct tcttaagatg atgctatatt ttgt 344

<210> 14554
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-C9

<400> 14554

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 cggcgccggc ggcgggcgcca gcagaacggc cgtctctctc cgcgccccca cgcctccagc 180
 ggcggaaca gcagcagcaa catctggtag cattgctcca gcaatttcat tgactgaaaa 240
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 tggagtgaat cagggtggat gctcaggcat gtcttacacc atggaatttg aaaatcgaga 360
 gaatgccagc cctgatgatt ctgttgtaga gtatgatggt ttgcaatag tctgtgacct 420

<210> 14555
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-D1

<400> 14555

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ccgcatgccg ccgccgcctc atcgccggcg aagcgggtgc agctggccgc gcccgagggc 180
cgccgcgccc ctctgctcgg cctggcgggc gtcttcgccg tcacggccac caccgggtcg 240
gccaaggcca cgatcttcga tgagtacctc gagaagagca aggccaacaa ggagctgaac 300
gacaagaaga ggctggccac cagtggagcc aactttgcgc gcgcctacac cgtggagttc 360
ggcaactgcc agttccccta caacttcaact ggggtgccag ggacctcgcc aagccagaag 420
aaagtcccct tcaatcaagc gatgac 446

<210> 14556
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-D12

<400> 14556

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gaggtcgaga tgctgctctc tttcccttcc tcaactactac aatatgtact aacaccaatt 180
tgccctgttc tacaacctca aatcttccta agtagtaggc aggaggctag cagtagtacg 240
gtaaatacaa catgaatgaa acaaagcagc aatctttttc ggcagcgta ctgtaactgt 300
actacaagca gttccacaca gtatacgggc gtcattctctg caccatggcg tcggcacgcc 360
cgtcctcgag cctccagctg gtgctccggc tcttggaacc acggctgaag gcggcgctg 419

<210> 14557
<211> 359
<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-D4

<400> 14557

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acatgaccaa gtctgcagga aaggatgcct tccaccttag ggtccggggt caccggttcc 120
atgtcctccg tatcaacaag atgctttcct gtgccggggc tgataggctc cagactggaa 180
tgaggggtgc ctttggcaag cctcatggca cctgtgctag ggtggacatt ggtcaggtcc 240
tcctttccgt gcgatgcaag gacaacaatg ctgcccatgc cagcgaagct ctgcgtcgcg 300
ctaagttcaa gtttccttgg ccgccaaaag atcattgaga gcacaaagtg gggcttcac 359

<210> 14558

<211> 162

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-D6

<400> 14558

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actgaaatca gacctgtca ctcaggacca gccaggacct gtctaattca gtcagagaga 120
cgtaacgcgat gatcgctcgt gaatttctgg ggcggctcct gc 162

<210> 14559

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-D9

<400> 14559

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cggcgggtgcc atggcccagg aggtgctgct gggcgcaggc gacggcgggc tcgtcttcga 240
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cccgcacaaac gtcgtcttcg acgaagacga ggtgccgagc ggcgtcgacg ccaccaagat 360
 ctgcgaggag gagtacctca acgcgccagg cgagacctac tccgtcagcc tcacogtgcc 420
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<210> 14560

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-E10

<400> 14560 .

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 tccagattga gttccagtac acccagtcgt ccccaaaaga gactgcatca gccactcagc 180
 ttcttaccat ggaggcccc tttgagttct catggcctga gccaccgcca acaatggaag 240
 tcacactaac acctgccgtc tctgttgtgt agcttgtcac cctgggtggcc aagaagccaa 300
 agacatgaga caacggcctg cctgatgtt cggcatggag aacccttttt tccttggttc 360
 cctgcgtgaa gggggagcct agatgaag 388

<210> 14561

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-E11

<400> 14561

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 ccgcogtcac ggcgctcccc aggaatgggc agcgggcgtc gtctctcttc ctcgggcgga 180
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 ttccccggga cttcggcttt gatgcctggg gcctcggatc tgacccggag agcctgcggt 360
 ggaacgtgca ggcggagctg gtgcactgcc ggtgggcgat gctcggcgcg gcgggcatct 420

tcatccccga gttcctgac

439

<210> 14562

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-E3

<400> 14562

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gctctaggtg ttgctggcctt gggttgtgag gatgctcttg ttcactctgt taactatggt 180
tggcccaaca tatTTgagac atctccccac gttataaatg ctgtcatgga ggcaattgag 240
ggatatgaggg ttgcgctagg tgcagctgtg atTTTgaatt attgcttgca aggtctcttc 300
catccagcaa ggaaagtacg tgaagtttat tggaagatat acaactctct gtacattggt 360
gcacaggatt cacttggtgc gtcttatcct gccctggaag acaatgggga taacata 417

<210> 14563

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-E4

<400> 14563

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tgctcggagg aggtgaggtc ggtggccccg gccggcttcg gccgccacgg aggcggcgctc 180
cagcagcacg tcgtcaagga gaagtTCgag gaggtcgaca cggTctcacg cgccggcgcc 240
aaccaccacc accaccacca tggTcaccac ggcgggccacg gcttcgtTgt gcgcgagacc 300
agggtcgagg aggacatcaa cacctgcacc ggcgaaagtcc acgagcgcag ggagagcttc 360
ctcgcc 366

<210> 14564

<211> 466

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-017-Q1-E1-E5

<400> 14564

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tcgacgttcc tgatgtacgt ggaaggacag agattctaaa agtgcacgtt agcaacaaga 120
aatttgattc tgatgtttct cttgatgtca tagcaatgag aacacctggg ttcagcggag 180
cagacttggc aaaccttctg aatgaagcag ccattctggc tggaagacgg ggaaggacag 240
caatttcttc aaaagagatt gatgattcta ttgacagaat tgtagctggt atggaaggga 300
ccgtgatgac agacgggaag agcaaaagtc ttgttgctta ccatgaagtt gggcatgcaa 360
tttgcggaac ttgacgcct ggccatgata ctgtccanaa ggttacctta gttccaaggg 420
gtcaagctcg tggctttaca tggtttatcn cgatggatga cccaac 466

<210> 14565

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-F1

<400> 14565

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gtgcacgcgg gaccgggcaa catttcccg cgcagccaac aagcagaggg ggcgacgata 120
tatagccacg ggcgccggtt gctggatccg gcattcttct cgatcggcaa gacgatagga 180
tggggttcca cctgctggcg ttcgtggcgg cgaggggacct catgcaggcg ttcaacctgt 240
cggcgcgcgt cagcctccgg ctgccgctcg cgcgccacct gccggaggcc ctcgccgtcc 300
tgtacggcgt gctcgtctcg caagccgct ggctcaacgg cgccctggcg cgcggcgccg 360
cctggagcca cagccggagc cggggcgggc tcgacgagta cgtccgccac gccatgctca 420
gcgtctacga ctgagaccac ggcgg 445

<210> 14566

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-F10

<400> 14566

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caacgacctc tgtccagcaa gcgctacatg ggcttgcata ctgtgtgtat ggcaaacctg 120
acgtgcgggc tttgatgttc gacgtgtttg acttcgaaca ggtccagcct aaagcagtct 180
gaggatcttc gccattggta ccgatgctag agttgctgaa tgctgaccaa cacgacccca 240
atggcagtgg tacaaatgct gtagattctt gaagtcgtcc attcgacagg agatctttcg 300
attctcaagc ctgaagccct gaaccctgag ctgggacagc tgattagcca ctgggtcctg 360
tctctcctga aaccgtcact gtt 383

<210> 14567

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-F11

<400> 14567

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ataacatagt ggtacacact gctgatgcat gggagcagca ggggcgttat tttatgcatt 120
catattcggt acaggcaggc aagcagcatg catactgcat atgcatgcat gcagatgac 180
cgatccatcg ttttagttat tagttggggg tcaagtagag cccgatcgcg tccaggcaat 240
ctccagagcg gccaaagaag ccagcgacgt ggccgttggt catcaccttg acacggaacg 300
gggtgccctc gtcctgccg tacgggccgt aagcgcgttt gttggtgacg aatttgagag 360
acttgaccag attgtcaatg ttgt 384

<210> 14568

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-F3

<400> 14568

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tgtcagcgga atgcctacat tttgtatccc tgtccaagat ggtggtgttg gttttgatta 120
 tcgtcttcat atggctgtcc cagacaaatg gattgaactt ctgaagcaaa gtgacgaata 180
 ttgggaaatg ggtgacatcg tgcacacctt aacaaataga aggtggcttg aaaagtgtgt 240
 cacttattgt gaaagtcatg atcaagctct tgttggtgac aagacaattg cattctgggt 300
 gatggataag gatatgtatg atttcatggc tctggacagg cttcaacgc ctgcgcatcg 360
 tcgtgggata gcattacat 379

<210> 14569

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-F5

<400> 14569

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 tcgatacctag cttcccttcc aagaagcgca ggcgccatgg ccatgtccac gcaagcctcc 120
 gccgccacgc gccacctgct ggccgccgcc tggggcgccg cggcgaagcc ggggcagctg 180
 agctcgcagc tcgcgctgcc gtcgtcgtcc tcccgcgggc cggccccgct ccgcgcgtcc 240
 accgaggagg cggaggagg gcccaagggg ttcgtggccc cgcagctgga cccagcacg 300
 ccgtccccga tcttcggcgg cagcacgggc gggctgctcc gcaaggcgca tgtggaggag 360
 ttctacgtca tcacgtggac gtcccccaag gagcacgtgt tcgagatgcc caccggcggc 420
 gccgccatca tgcgggaggg gcccaacctc ttgaagctg 459

<210> 14570

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-F6

<400> 14570

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 gaagaccggg gaagaagtga aaaccaaaga tggcaciaaac ggagcagcgg ttcttgctgt 120
 aacagggatc gcggaggtac gcaaaactgc gggtgcagaa aacggtgtct cgggagttgg 180

ggtctccgag cacagagtgt ttctttctcg tgaaaacagg tgggaagacc caaccagact 240
 gacgcagaac aaaaagacag ccagcaccgg cactagtgc tctactaaga catgcatctc 300
 ctgtcgaggc gaaggccgcc tcatgtgctt agaatgtgat ggaacagggtg agccgaacat 360
 tgaaccgcag ttcttggagt gggtcggtga agatacgaag tgcccatact gtgaaggaat 420
 tgggtccatt ttgt 434

<210> 14571
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-F7

<400> 14571

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 tcgccccca gctacctgac cggcgagttc cccggcgact acgggtggga caccgcgggg 120
 ctgtcggcgg acccggagac ctctgccaaag aaccgcgagc tggaggtgat ccaactgccgc 180
 tggggccatgc tcggcgcgct cgggtgcgtg ttcccggagc tgctcgcccg caacggcgctc 240
 aagttcggcg aggcggtgtg gttcaaggcg ggctcccaga tcttcagcga tggcgggctg 300
 gactacctcg gcaacccgag cctgggtccac ggcagagca tcttgccat ctgggcgtgc 360
 cagggtggtgc tcatgggcgc cgctcgacggg taccgcgtcg ccggcggccc gctcggagac 420
 gtgggacgac 429

<210> 14572
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-F8

<400> 14572

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 cctgtgtagg gacaacagat cacggttctg agatatgaac tgtgtggtct gcaacggcct 120
 gctcgtcctg cagaagaaac aaaaccgatc attgccttga tacttgactg ataatccagt 180
 ttcgattcgt gtggctaaga cttcctctgt ggtgtggacg cacgtacgca ggtgggtggc 240

tgcgcagagc gtgtttctacc acctgtacaa ccaggtgtcg tacatgtcgc tggacgagat 300
 ctcgccgctc acgtttctcca tcggcaacac catgaagagg atctccgtca tcgtcgcttc 360
 catcatcatc ttccagaagc ccgtccagcc catcaacgcg ctccggagccg ccctcgccat 420
 cct 423

<210> 14573
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-F9

<400> 14573

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 agatgttgag caaacttcta cagcttcctg ggctaacca gtgaagacag aaggctctaa 120
 gcagcgatat agctttgaaa gcaaccccaa taaatgggag aaatccaact ccttatgtgt 180
 gacagagaac tcaatatcaa atggatcacc taagaaggat tctcaggggt caggtctcat 240
 tatttgattg gtccaggtca acatcactag ctaggacctt ttctcctcgt gttttggaga 300
 accaaattga tgccagaaaa gagttggaga aaagccttaa agctacctgt gaagagttta 360
 taatgtccat aactaaatta gtagttgacc caatgctttc gtttgttact aaggtaactg 420
 gcg 423

<210> 14574
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-G12

<400> 14574

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 catgattaag ccatatgcgg tcgcacgata gttttgggta acgagaacac aactgggtcca 120
 tgaaaccagc tcagtcacga ctacgacac aaaccataca aatactttga aagacagcac 180
 catccatggg caatggcaga gacactagat aaccagata cagcagcagc ttcaacgact 240
 gatggcttaa taaccaccgc gaagacggag caccaggtgg aggggtgctct cctttctggat 300

attgtagtct gcaagggtgc gaccatcctc cagctgcttg ccggcgaaga tcagacgctg 360
 ctggtctggg ggaatccccct ccttgctctg gatcttagcc ttcacgttgt cgatgggtgc 420
 agagctctca aac 433

<210> 14575
 <211> 290
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-G2

<400> 14575

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 atgtacagga gaacaacggg ggtgactctg agctgcaatg cgggcgcagc acagcctgcg 120
 tggaacgccc atatgggcat gaatcacccct accacttgat gtacgacaat ctggtcttgg 180
 tcgcaggagg cattggaata tcgccattct tggcgatctt gagcgaccta atccacagga 240
 tcgaggaggg caagtaatgc atgcgcaaca acgtgctggt cttttggtca 290

<210> 14576
 <211> 402
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB36-017-Q1-E1-G3

<400> 14576

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 ctctctcca cggccttcgc cggcaaggcc gtgaacgtgc cgtcgtcgtc cgccttcggc 120
 gaggcccgcg tgacgatgcg caagacggcg gcgaaggcca agccagcggc ggcgtccggg 180
 agcccgtggt acggccccga ccgcgtgctg tacctgggcc cactgtccgg cgagccaccg 240
 agctacctga cgggcgagtt cccggggcgc tacggctggg acaccgcggg gctgtcggcg 300
 gaccgggaga cgttcgccaa gaaccgggag ctggaggtga tccactcncg ctggggccatg 360
 ctgggcgcgt tcggctgcgt cttccccgag ctgctcgccc gc 402

<210> 14577

<211> 408
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-017-Q1-E1-H10

 <400> 14577

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 gctgctcca ccatggcgat ctctccaagc gcgatggcgc gtaaccccat caagggtgggc 120
 tccttcggcg agggccgcat caccatgcgc aagaccgtgg gcaagcccaa ggtggcgggc 180
 tccggcagcc cctgggtacgg ccccgaccgc gtcaagtacc tcggcccctt ctccggcgag 240
 ccccgagct acctcaccgg cgagttcccc ggcgactacg gctgggacac cgccgggctg 300
 tccggcgacc ccgagacctt cgccaagaac cgcgagctgg aggtgatcca ctgcgctgg 360
 gccatgctcg gcgcgctcgg ctgcgtcctt cccgagctgc tctccgc 408

<210> 14578
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-017-Q1-E1-H11

 <400> 14578

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 atattttgtg tcaacaaatg caacgtccac atttcgttcc atagtttcaa gttatcctgg 120
 acggttgact cttgtcacia tacagtgcc aaatcctgac ttcaacaaag agcaaaatag 180
 gtggagaatg gtgcgaagaa tgctcattga agctatcgtc gaccttcttc ataccaatgg 240
 acaggtttat ctgcagtcag atgtggagtc cgttctgctc gtgatgaaag agcagttcct 300
 ctctacagc aagggtcagc ttgtcacgga cggcgatggg ggcaactgca tcgataaccc 360
 gttcggcgtg gtatccgact gggagcgcca tgtcctcgtc cgcggagctc ccatgtac 418

<210> 14579
 <211> 134
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-017-Q1-E1-H12

<400> 14579

actcgtggga caacacaaga ctctaaaatg agtcgtacga cgtcaggccg gtttgctgta 60
ttctgctacc tggtagcggt tgcgtgctat atatgctacg gtgaaagtga aataaatctg 120
tggttccttg tgtg 134

<210> 14580

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-H2

<400> 14580

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tcgaagcggg ggggtggactt cttcaaccgg gactcccagg ccgtggagtg ggccacgccc 120
tggtcccgca ctgccgagaa cttecgtaac ttcaccggcg agcagggcta cccgggcggc 180
aagttcttcg acccgctcgg cctcgccggc accgtcaagg acggcgtcta catccccgac 240
gtcgacaagc tcgagcgggt caagctggcc gagatcaagc acgcccgcac cgccatgctt 300
gccatgctcg ccttctactt cgaggccggg catggcaaga cgccgctcgg cgcgctcggc 360
ctatgatttg catgctgcca atgtgaacca gatgggggtg ttcctctctg tttttccttc 420
cttctt 426

<210> 14581

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-H4

<400> 14581

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aataattagt acagttccat catgggctat atgttcttct tcttcacaaa aattgggcat 120
ctgtatgggt caaattttta gaacctgggt atcctagaga tgagaatctc ttgatacttc 180
atccttgata tcatgagaaa ggagacatca tggtgcaata actgatgcaa ttcttctgaa 240
tattggaaga aatgactagc accatcaata actagtagc ttttaccatg gggttatatgt 300

tcttccacaa attggcatct atatcattca gatctgaaga acttgggtcat ccctagagat 360
acgaattcac tttcattttt tttggtcggt tataaaaaaa ta' 402

<210> 14582
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-H6

<400> 14582

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gggccccaaag aatgcccgtg aggcgggtgag gcacttcggc aaggctcctg gagtgccgca 120
cagccacacc aagccatatg tgcgctccaà ggggaaggag ttcgagaagg ctctgtggcag 180
gaggaacagc cgtgggttca aggtttaaga aagttgtggg ccatcagcat agtaatcact 240
tcctaccgag tagtagcaca ttttgttgcc ttggcttggg ttttgaaaga tatttgaagg 300
attttcgtgc cttgtctact ggttactggt tgaacaagaa gacaatgttc ttttgcaaaa 360
gaaaatgggt ggggataaaa aaaagggggg 390

<210> 14583
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-H8

<400> 14583

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ccctccgccc cgccgcccgc tcttccggcg cgacctcacc ggctccccgg tccgctcct 120
tctccagcgc ggcgcggggg ctcccccttc tctgcttggc cccgccccgc cgccgcccgc 180
gggacctcgc caagccccgc gccgcggtcg aggcgcgggc ggagagctac gcctccgccc 240
tggcggaggt tgccgtcgag aacggcacgc ctcgagcaga cgggtctctga cctccagaag 300
ctggtgaaga tgttcgtcga acgaggccgt cgccgagttc t 341

<210> 14584
<211> 444
<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-A1

<400> 14584

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aagatcggag agtgggggtgg atacgccggc gatcgtcggg atctgagggc tactccggac 120

cggctgatcg aggtgaaggt cacggcggac aacagcagct gcatccgctc catctccttc 180

atctacatcg gagccgatgg caaacctgac gatgaggggc catgggggttt cggccatgct 240

ggcacggagt acaagattga tctgtgcagg ttcgacgaga gcttgacgga gatctccggg 300

accacggggc cagcctacaa cattgacaat ctggtcaagt ctctcaaatt cgtcaccaac 360

aaacgcgcgt acggaccgta cggcaaggac cagggcaccc cgttccgtgt caaagtgatg 420

aacaacgggc acgtcgctgg cttc 444

<210> 14585

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-A11

<400> 14585

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gccagtgtg ccagaagcct ccgcctccgc cgcccaagtc gccgccgaag ccgccgccgt 120

gcacctgttc gagccacgcc gcctgtgtct ggggcaagac accgccggcg gtctggccac 180

cgatgccgcc gccggtctgg ccgccccgt ggggcacctg caacgtcgtc accgaggaga 240

gcccggtgctc cgtcatgtga cgctacgcgc ttgctttgtc atgtactcgt cgctgttggc 300

ctgttgctgt gctgccatcg gtactggacc tcggtgctac ttgggccggt gccattctgt 360

gtagtgaagg tacagtgcac cgtctgcaga tgtgcttgcc tcctacagtc tcttatacga 420

acgtgtcacg ccttgtttta 440

<210> 14586

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-A12

<400> 14586

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ggcgagatgg tgctgctcga gaactacagc gccctcaact acacaggatt ggttaagatt 120
ctcaagaaat atgacaagag aactggagcc ctgatccggc tgcctttcat tcagaaagtt 180
cttcagcagc ctttcttcac cactgatctc ctgtataagc ttgtgaagca gtgtgaagcc 240
atgctggagc agctccttcc ggtagtgag gcctctgtct caagtgaaga tggaaaagga 300
gactctaata atgaagagaa gctggcgaag ccaagttctt ccttggtaaa tgggtggtggc 360
atgccagagt tagatgagat cgagtacatg gagagtatgt acatgaaga 409

<210> 14587

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-A3

<400> 14587

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ccatggcgtc gatgacaggc ctctcgagc ggcctctgcc cagcaggcgc gccgacagca 120
gaaccaggac ggccgtcgtc gtcgtcaggg cgtccgcgga gggcgacgcc gttgcgcagg 180
cgggccgccc cgccgtgatc gggcttgtgg ccaactggcat cgtcggcggc gccttgtcgc 240
aggcggcgcg cgccgagacc gtcaagacca tcaagattgg agccccgccg ccgccctccg 300
gtggactcgc cgggactctc aactctgacc aggcgagggg actcgaactc ccc 353

<210> 14588

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-A6

<400> 14588

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gagacccacg acaccctccg cttcggcctc aatgccggcg tcaaagccga cctcgcgccc 120

gggcatgcgc gccagtcag cgtccaatcc gaggccaagt tctgggcgga caacaagaag 180
 tttgggacat aggccaacga cggatccgcc ttgaacatcc gcaaggatct cgatgcccag 240
 atcctctcaa ggttcctaaag gccccttggg gcgttgcgat caactctgct tggatatgag 300
 gcactgacag g 311

<210> 14589

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-A8

<400> 14589

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 cacgcttctc cctcccgtcc cgaccccagc ccccgtaca cctgcgtctc cgcggccccc 180
 ccaaccgtcg ccgtggcgct tcactcaactg ctctctccgc cgcgtcccca gaagtcgaga 240
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 gtgtgaaggt gctcaagggt gcagccaaga cgaggaaagt acctgctccg gaaattctct 360
 cggcgctgtc caagatcaag aaggcaaaac tcgacacgtc ggcgttcttt gagacactcg 420
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<210> 14590

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-B1

<400> 14590

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 ccccgctgcc atctcggtgc tcgttaacga gtgcggcaag catgtgccct ccagcttcca 120
 gtgcccgtaa tcacatcagc tgccgatatg tgctactatg atgtatcacc accacgaatc 180
 tatatccgca tgcattgcat aatgcatggg tgattaaggg tttatacgcg gtcaaagtta 240
 tacacgcata tatatgtagc ttcatacatg gagctgtggg ttgtgcatte attttcaaat 300

catgtaccag tattatattg tagtatcata gaccagtgtg agagttgtgg cccttggtgg 360
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<210> 14591

<211> 459

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-018-Q1-E1-B11

<400> 14591

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actccatctc catctctccc acctcgccgc ctcggtaac ggtgtcggac ggcgtcgagt 120

ctgtggacgt taacgggttg cgtcgccgc cagcgccgc ctccgtccc gccgccgcg 180

atccccactg gctgcctcgt ccgctcaca gtgcggacgt catggagggtg gacgggaagg 240

ggctcaaggt tgcttaccag ggttgtgtg gagcgtacag cgaagcagca gcaaagaagg 300

cgtaccogaa ttgtgagact gtgccctgtg agcacttcga cactgcattt caggctgttc 360

aaaactgggt agctgatang gccgtactgc cacttgagaa ttcattggga ggtagcatac 420

ataggaatta tgatcttttg ctccggcata gtttgcaca 459

<210> 14592

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-B12

<400> 14592

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aaatattggc atatataaac taaactgaat tgaggacgat atggcccgct tggctctctc 120

cggaatcatt ggtaaggggc acaacatctt tgacgatggc ggattcgggtg aagtccatgc 180

tgacceatt aaagtcgagc gtccgcacaa gcgtccgccg cagaagcaga atgcggagaa 240

tggaacgacg acgaagggtg atgagccaaa ggaattgcct aagcacgtgt gcttcaaggg 300

agacaacggg ctgtacctga gcgctcggt ggtggaaggc taccctacc tgagtttgc 360

gtcggacgac ataggcgatc caagtgtgag gttcaccacg tacaactaca tga 413

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<212> DNA

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<223> Clone ID: LIB36-018-Q1-E1-B2

<400> 14593

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gcagcaccac caccattgat ggcgggttca gctctcttgg ggctggatgg atgttcagga 120
tcaggtggtg gtcccgggtcc cggccatcgt ccagatgata ctacaaggga cgtacgacat 180
tatgattaat atatataac ccagagcgga gcagaaagac ctgataaggg aattagttgg 240
gatgaatgaa atggaataaa catgggatgg gatgggaatc gtcgtcccggt atatagttta 300
gagtggaggc cggtgagtgc caactcaaac tctttgtatt gttgtttata tctacaaatt 360
ttgccggaat gaggctacaa ttattgggga aaa 393

<210> 14594

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-B3

<400> 14594

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ctccccctga gttcatgtcc aattttctct tgtgcatatt tccatatctt tgttccaact 120
tgcacattta catatctttg ttccaacctc tccccctttg tcattaattg ccataaaagg 180
gttgttctaa ggctctggga aaatgtactt gtgaatatta taccaacttg aaagtactca 240
ataagttttt gatggacacc atatgcatga taaaatcctt gacatcactt gcatgaactt 300
attttacgag agagttgctc tcttgaattg atgatcactt aaggttgtgg atcacttgaa 360
gtcttgtatc actcaaagga tatcaattgt atgat 395

<210> 14595

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-B5

<400> 14595

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ctcgataccc ttggtgccag ggtcatcgcc acgtcatcct tgaactagca aaagattcgg 120
aaagtggtag tgcaattgta tcaccaaaaca aggaagaatg aaggggaacc ccatggattt 180
gtatgttttc tcttctttct tgcattctta ggtgggtaat tggctttgga ataagtgaga 240
tggaggacat cgctagaaca attctgttcc ctgggctgta atttcaattt gggctgggtt 300
cttcatcatg ccatggatat tatgaataaa tttaggttac tttgttaaaa aagagagca 359

<210> 14596

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-B6

<400> 14596

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aggctctcct ctccggccgg cagctgctgg gccgccccgt gcagtcggcc gtctctaggt 120
cgtcggcgag gaaggcgccc ttcgtcgtca gggccagctc cagccctcca gccaaagcaag 180
gtgccgacag gcagctgtgg ttcgcgtcca agcagtcgtc ctctacctt gatggcacgc 240
tgcccgccga ctatggcttc gaccgctgg gcctctcgga cccggagggc accgggggct 300
tcctcgagcc cacgtggctg gcctacggcc aggtgatcag cggccgcgac gccatgctgg 360
gcgcggtggg cgcg 374

<210> 14597

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-B7

<400> 14597

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ttctcatcat cctgatatca ggactcatgt gcatgatggg gatcgatact ccctcgaggt 120

ttgaagctcc ccaggagtct tgatctctcc cttggactgc ataatccgcg ggggggttgt 180
gacgagggca cgcggcggcg ttgagggggg cgggtgttct gttggtctgc actgtggata 240
tatatcgttt agcttgccat ttggtaggga gtacgccttg tgtattttgt tttaacgagc 300
cgagtgtcgc tcacagtgtg ctagagtttt ttggtg 336

<210> 14598

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-B8

<400> 14598

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ccgggtgctc tacgtgcgga acctgccgtt caacatctcg agcgaggaga tgtacgacat 180
cttcggcaag tacggcgcgga tccggcagat cgttttgggc aacgccaagg acacgcgcgg 240
gaccgcttac gttgtctacg aggacatcta cgacgccaag aacgcgctcg accatctctc 300
cggcttcaac gtcgccaacc gctacctcat cgtgtcttac taccagcccg ccaagatgtc 360
caagaagtcg gatgtcaaga agaaggagga cgagatcacc aggtccagg agaagtacgg 420
aatcgggtcc aagacgcccg gccc 444

<210> 14599

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-C10

<400> 14599

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aagagggcaa tgctttttca gaagaaaagg ctgtggcagc tcgtgggcat caactgaaga 120
tcatagttag gccgggcaca accaacatcg gtggaggcaa cgttgtagtt tcgtcaaggc 180
attccttggg aagcagtga gctcaagta agcggaagct ccacatccct gatgggcaag 240
aaaagacaga agaatcggca agcacttcaa agcgactgca tagaacatca agcatcccat 300

tcgacttgaa cctcccaggc gacgatgagg aagcccatga tgatgggtgat gatgacaaga 360
gcagtggcaa ccacgaaaac tatctagaag gatttgtccg aaaactcctg c 411

<210> 14600

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-C11

<400> 14600

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gtcgcaatgg ccgccgtctc cgcagccccg aggcctctga tgctccccc actcgccctc 120
cgtgcccacc tcttctcctc cgcctctccg ctcccaatgc gcgcgctccc ctactccgc 180
agccgcttcc gtccttgac cagggcctac gctgtcaagc aggacacggc cctctggacc 240
cctgcacccg tctccgccat cagtgtgtcc accgacgacg gtcctgtctc cctcatcgcc 300
gtcgacctat ctgacgccac ggacctcgtg gactcgtaca cgaacccggg ccaatacctc 360
ctgatccgcg taccgggga ggagctcaag ccggcgta tggatcatctc ttccgcgcct 420
aaagcggggc cccggttoga attccttgtc aaaagcgtg 459

<210> 14601

<211> 443

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-018-Q1-E1-C12

<400> 14601

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agcaggctgc cggaggtgac catcgtcccg gcggcacggc cgttggtctg cgacggcaca 120
gtcgacgcgg caaaggcggc ggcaggcaag gagcccgtaa gcccgggcac tccgtcctcg 180
gtggccgccc gccgcagcag ctgtgaggag aggcgcgcgg tggacggcgt cgcctgcct 240
gggtggaagc tcgacgcct ctgccaggag tctgcccgt cgcgggcat gagggcgcg 300
ttcccctact acttctgaag ctttctgtt gcagtctgc gtgagttctt gagcggcgac 360

atctggtgca tgctcttgac gactgatggc gttctcttgg gtngtttctt tgctcaggat 420
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<210> 14602

<211> 93

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-C2

<400> 14602

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 ctcgatgata gttgaagccg aaccgtgaag tag 93

<210> 14603

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-C4

<400> 14603

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 atccatccat ggcatgcgtc agcaccttcc acagctgccc cattgccaga agagcaaaga 120
 tcaacaccag gtccaggggc agcagcagta gcgtggcgaa ggggtcacca ccaccagcct 180
 tccagttcca gtgcagggcg tcgactttcg cggcggacac cagcctccgg ctcgagctgg 240
 acgagaacct cgaggcgatc atctcggggg cgtggcccgg gaactgctcc ctctcagct 300
 acgacgacct ccgcgcctac ctcgatcgcc aggagacggc ggcccaggca caogatcagc 360
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<210> 14604

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-C5

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gccaatctcc tcgcggcgct gctctcggtc agtgcgaccc tggagtccgg tttctacagg 120
 aagacgtgcc ccagcgccga aagcatcgtg cagcagagcg taggcgacgc gttcaccaag 180
 aattccggcg tcgctcgggg gctcgtccgc atgcacttac atgactgctt cgtcagacga 240
 tgcgacggat cgggtgctgat ggactccacg gtgaacatca aagcggagaa ggagtgcgac 300
 acgaacatcc agaacctgag gttcttcgag gtggtagaca gcgcgaaggc gtcgctgaag 360
 gctaagtgcc caggcgtagt gtcctgcgct gacatggctg ccttc 405

<210> 14605
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-C6

<400> 14605

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 tacgaaacca aggatactga tatcttggca gcattccgag taactcctca gtcgggggtt 180
 ccgcctgaag aagcaggagc tgcagtagct gcggaatctt ctactgggtac atggacaact 240
 gtttggactg atggacttac cagtcttgat cgttacaaag gacgatgcta tcacatcgag 300
 cccgttcctg gggaccacaga tcaatatatc tgtgatgtag cttatccatt agacctatct 360
 gaagaggggt ctgtaactaa catgtttacg tccattgtgg gtaacgtatt tggtttcaaa 420
 gccttacgcg ctctacgttt g 441

<210> 14606
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-C7

<400> 14606

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 ctccgggcag caagcagcag ccagcaggca tggggatacc tgtggtggtt cccgtcgcgg 120
 cggcctactc gtgctcctcc tccctcgccg cgccaccgag ggccgcgcgc gccgcggcga 180

gggcgccgag ccgcgcgcac gtcgcggcgg ccgggatgtc ctccagggcg tctccttcg 240
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 gagcgggctc cgggggaggc ggcacgctcg ggtgcaagtg cctcttcggg ctcggcgtgc 360
 cggagctcgc cgtcatcgcc ggcgtcgccg cgctcgtgtt cgggccaag 410

<210> 14607

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-C8

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 cgccgtttct tggccagggt cgcgcgcgcg ccgccgcgcg caatgccagc cccctccgcg 120
 acgtcgccgc cgccgctgct ggcggccgga tcaccatggg cgaggacgtg tggtacggcc 180
 cggaccgcgt caagtacctg ggcgccgtcg ccggccagac gccctcgta cggaccggcg 240
 agttccccgg cgactacggc tgggacagcg ccgggctgtc cgcggaccgc gaggcgttcg 300
 cgcggaacag ggcgctggac gtgatgcacg ggcggtgggc gagcctgggt gcgcggggct 360
 gcatggcccc ggaggtgcgg gagaaagggg tcgccgtgga cgttcgggga ccccg 416

<210> 14608

<211> 268

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-C9

<400> 14608

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 ccacgtgctg cttggagctt tttgctatgt ctagttttct cctagttgtt gtacaggaaa 120
 agatagaata gaattcaaat ttggtggctg caaaagtgtg gagactttaa ttcatataaa 180
 gttaggctta agattagtgc aaacagttgt agtttagttt agatttagag tacacttatg 240
 tatgcattgt ttgacagtgt ttagttat 268

<210> 14609

<211> 469
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-D1

<400> 14609

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cctcctgccg gttgaggcca gcagagtgat gagtgaacgg agtcattgctt gtgagattag 120
gctttgtcgt tgtagcctcc gtcgcagctt taactcttca gagagctaac agtggggcca 180
ggcacagcaa agactatgtc caagcaagga aaaggaagga taaggctaac aattctgaac 240
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cccgtcgtc agacgatgac gacgatgata tgctttccga gatcgaaagc ctccctatcag 360
gagacattga catccctata ccaagcgatc gcttcgacgt taatggacgg tcacgggtaca 420
acaacgctta catggctaac gaggcctctg agatagagaa gctgcgcag 469

<210> 14610
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-D11

<400> 14610

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agaacactga tcacctctaa cctctgcttg agtgcacacg cttcaagatc gtcccggagg 180
gttcactaca tccttccttc cgcctctgct gctgcacaca actccagcta caggaagaag 240
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tccactgaca atgtccagtc cactgctccg aaacagaccg ggcgacagga gctggaagat 360
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cgggctgaac ctgcgccgcc gcttgccccg 450

<210> 14611
<211> 298
<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-D3

<400> 14611

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tgcaccaaag aggggttaaaa cagcctgttt caccactgag attctcgatg gatttgatgt 180
tcagagaact actggggtttg ccgataccca gaagaaatat gttgatctta cacgttcggt 240
aaaaccatac tatgatgcaa gtttctcgat cgttggtaaa gcttccctg tttgccca 298

<210> 14612

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-E10

<400> 14612

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gccgcctggc gccgttctgc gccaacgcca ccacctctgg ccgcgtcacc atgtccgcgg 180
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agggtgtacca ctgccgctgg gccatgcttg ccgtccccgg gatcctgggtg ccggaagctc 360
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<210> 14613

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-E11

<400> 14613

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caccatggcc agggttcgtg gagattgtct cggatttgtt gtgcccggtc cttgttcctc 240
acagaacacc tagaagaagt ggtgtttgaa ggaggagtct actccagtgg ctactgatca 300
gttgaggagg ccatctaacc gggatttggg tggaaaggct tttagcctct tctctacaac 360
aaagagcacc tagaagaagt ggtgtttgaa ggaggagtct actcgagtgg ctactgatca 420
attggaggag ccatcgaacc gggatttggg 450

<210> 14614

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-E12

<400> 14614

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gaggacaggg agctgacggt gcgcaagacg acgctcttca ccccggggga cgggctggag 120
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gcgtgcgggg gcggggccgc caggggggac ctgcgctgc tgggcgcca gggggagccc 240
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gacggggccg cgcacgggca gaagaagccc gtcttctccg cgcgccgctc ctccatcctc 360
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<210> 14615

<211> 282

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-E3

<400> 14615

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acctgtgcgg agatcacaat cgtgctgtgc tagttccaac tgtgcagtga ggactacctg 180

tggtggtgga ggtcctttct gacctcagga tcacagcaa tccacctcgt cctggatgcc 240
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<210> 14616

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-E4

<400> 14616

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cagtccaccg ccgcgctggc cgcgcgctcg ccgcgcctcg ccgccccgcc gcgcagcgcg 120
caactgttcg tctgcaaggc ccagaagcag caggccgccg cggcggagag cgacgtgtcg 180
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gccgcccgcg cctacgggga agcagccaac gtgttcggca agaccaagaa gaacacggac 300
ttcatctcct acgtcggcga cggcttcaag ctgctgatcc cgtccaagtg gaaccccagc 360
aaggagcggg agttccccgg gcaggtgctc cgctacgagg acaacttcga cgccaacagc 420
aacgtgtccg tcacatcca gccca 445

<210> 14617

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-E5

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gcgggcgcat tcatactgat aactcgtttg gatgcccaat tgatatggga gcctcatggc 180
tacacggcgt gtgcaatgag aatccactgg caccattgat aagctatctt gggctgaggt 240
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tctttgataa ggatggtaat caggtcgcaa aagagacagt cgataaagtt ggagaaacat 360
tcgacagaat tcttgaagag acggtgaaag tgcgcgatga gcaggaaaac gacatgccac 420

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459

<210> 14618

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-E6

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gaatatcaag gctggagcgt tttcagcttc agctaaagag aagcttgagg cagctggttg 180

ttccctaact ctgttaccta aacgaaagaa atggctttca caaaattatc taaagaacca 240

agcccgagca gaagagtact ttgccaaagaa aaaagctggt gctgggtgaat ctgatagcgg 300

ctctgcatag acgttctatg tgatgtactc ctcgtctcgt gcttttagcg tatgcgtagt 360

gctga 365

<210> 14619

<211> 411

<212> DNA

<213> Zea mays

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agcgccatga gcagcgccac cgacaacgcc atcgagctcc gcaagaacct ctccatcgcc 180

tacaaccgac agcgccaggc caagatcacc ggggagatcc tcgagatcgt cgccggtgcc 240

gacgcccctg ctggctgagc ctgagctccc ttggtggtgc cgtgctcctg ctatatataa 300

ttctttttcc tcattttctc cactctgcct gtaattcctg ataatagcac aaacgcaacg 360

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<212> DNA

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<223> Clone ID: LIB36-018-Q1-E1-F12

<400> 14620

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ggccggcggc gaagagtacg gtggtggtcc gtgtccctgc ctcaaggagg agcgtccgtg 180
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agaccaagct cgcctcggcg gcggcggcgg cgagcaggaa ggtggaggag gtggagagg 360
actacctgtc gtacgacgag ccaagaacgg tgttcccggg cgaagcgtgc gacgacctcg 420
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<210> 14621

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-F4

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agggacgtct tgggcgaggg ccgcatcacc atgcgcaaga ccgccgcca gccaagccg 180
gcggcgctccg gcagccctg gtacggtgcc gaccgcgtcc tgtacctggg cccgctgtcc 240
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gggctgtcgg cggacccgga gaccttcgcc aagaaccgcg agctggaggt gatccactgc 360
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<210> 14622

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-F5

<400> 14622

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tattttattt tgttttagtt gtcaaagca cctgtttttg aacaatattt gtgatgtagt 180
gccctgccgc gcttagagtc tgagactatt ttgttatctg ctgtgatgtt tcagatgaac 240
cagagttgat gtctggTTta gtaaaggtt atattcttag tgcattgcac ttttgtatgg 300
tcttgTcgta tctagacctg ttcgtggata atgaagtgtc 340

<210> 14623

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-F6

<400> 14623

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tccgcagcgc ctgttccgcg ccgccgtgat ggactggcac accctggcgc ccaaggtcgc 180
ctcccacgtc gtcgccagcg cgcagcccgT ggagggcgac ggcggcgTtg gcagcgtcag 240
gcagttcaac ttcacctcag gtaagtgcc actgccagc gcagaccagc atgcctccc 300
tcgctctctc tctctcgctc tcgcctgatc gatcaaacag ctagggcgac gacgtcgtgc 360
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<210> 14624

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-F7

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tgatcttcgt caccogttcc cgtagctggt ccttcgtgga gcgccctggt ctgctcctgg 180

tcaccgcgtt cctgctcgct caacttggtg ccaccttcct cgctgtctac gccaaactggg 240
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tcgtcttcta cttccccctg gacctgctca agttcttcat ccgcttcgtg ctcagcggca 360
gggcatggga caacctcctc gagaacaaga ccgccttcag caccaagaag gactaagggc 420
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<210> 14625

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-F8

<400> 14625

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gaggtcaagt ccggctcctg tggcaccgtc gtcaggaacg cggagctgaa gatcgctgac 120
ccagacacca gcgcgtcgct gggacggaac cagccaggcg agatatgcat ccgcggcgaa 180
caaatcatga aaggttatct gaatgatcca gaggcgacaa agaacaccat tgataaggac 240
ggatggctgc acaccgggga cattgggttat gtggacgatg acgacgagat cttcatcggt 300
gacaggetga cagagataat cagatacaag ggcttccaag tacctcctgc ggagcttgaa 360
gcccttctca tcacacatcc tgaaatcaga gatgccgctg ttgtctcgat gaaagatg 418

<210> 14626

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-F9

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ttcttggcat ttttcggact aattttcttt actccatgag gagttgtggt tctcctgtca 180
atctgctcac tgctcacgga cccaaaccct gatgatcctc ttgtccctga gattgctcac 240
atgtacaaga ccgacagggc caagtatgag tccaccgcac gctcctggac acagaagtat 300

gccatgggct agaagcaagg ctaaaagctg gccaaactgg tgaatgtgcc gga 353

<210> 14627

<211> 411

<212> DNA

<213> Zea mays

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cgttcgcgcg gaacagggcg ctggaggtga tccacgggcg gtgggcatg ctgggtgcgc 120

tgggctgcat caccgccgag gtgctggaga agtgggtgcg cgtggacttc aatgagcccc 180

tgtggttcaa ggccggcgcg cagatcttct cggagggcg gctggactac ctgggcaacc 240

ccaacctggt gcacgcgcat agcatcctga ccgtgctccg cttccaggtc atcctcatgg 300

gcctcgtcga gggcttccgc atcaactgcc tcgacggcgt cggcgagggc aacaacctct 360

acaccggcgg gcagtacttc caaccgccgg gcctcgccga cgaccccgtc a 411

<210> 14628

<211> 154

<212> DNA

<213> Zea mays

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gtgtggtccg ggtggacagg gactacctgt cctacgacga gccaaagacc gtgttcccg 120

gcgacgcgtg cgatgacctt ggccggcgagt tctg 154

<210> 14629

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-G11

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cgtcgtgcgt ggtctcgttt tgtgatgagt gggagagaga ggatgacaag atcgatcctt 120
 tgtaaatgga gatctcgtta attaggagag ctaccgctgg gacttggtgg tttgtaatat 180
 atgatccaac cagtgatgaa tcaatgcatt cacttggtga cacaagaaag aaggagaagg 240
 agagggagga ggggggacgg ggggaaggaa g 271

<210> 14630

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-G12

<400> 14630

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 agcgacgccc cgggcctcat aggatccgcc aagctcgctt ttggcaacgc caccacggcc 120
 aacgccgacc gctacaacgc caacgccgcc ggtgtcgcca gcaagagcat gagcgtgggc 180
 atgatcgacc attacctcaa caagaacact aacaacgacg tcgtcaagag ctacttcaac 240
 aagtcgctcg gcagcaggcc ggccaacaac aacaccacca caaccgtcaa gaagaactcc 300
 gccgcccacc acgacaagaa gcacaagaac tccggcaacg gcgccggcgt cgacaagagg 360
 ttcaagagcc tgccggcgcc ggaggcgctg cccaggggcy aggccatcgg cggctacatc 420
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<210> 14631

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-G5

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 aaactgcagc tacacaagcc agcgatgcag atctttctga agcggttgag gttgagagac 240
 gcagtgggaa ggttctgacg tacgttcagg actacgacta cggcgggtcc aaccccaaac 300

atgacccacg caggaagcca gggagcggac accctccata ggtagccaag gataaacgtc 360
 cgggtgacgct ccagccactg gactctgctg gtacctagct agtcttgctg agttgttcct 420
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<210> 14632

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-G6

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 caccggcacc gccgccgtgg caatgggtgc cagcgccttg cttgccggcg gtgccatggc 180
 ccaggagggtg ctgctgggcg catgcgacgg cgggctcgtc ttcgagccca gccagtccac 240
 cgtcaaggcc ggcgacacca tcagattcag gaagatcgcc ggcttcacgc acaacgtcgg 300
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<210> 14633

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-G7

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 tctttgtggt tgatatacctt cctgttgggt ctgcaaaagt ccagcctttg ggtgatgcta 180
 gtttcagaga gtacagcaat tccttcacgc ttgtcatgct cacttgagtt ggatccacta 240
 ctgagggatc ttgttgagaa gaaactaagc ctgaagagga atgtgactgc aatggctacc 300
 gagctcaggg atgccaggaa caggcttgct tcacaggaac tgt 343

<210> 14634

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-G8

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cttcgagagc gtgcagccgt ccgacagcga gtcgggggcc aacgcgcccc aggatgtcag 180
gatccaacgg gtctggtacg ctcagctcga gtgagtcgag tgtcgaactg gtatgtgtcc 240
gaccgccgtc atggatcgtg ggaacgtgta ggtataccac gggaagggtt ggggagcaga 300
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<210> 14635

<211> 179

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-H10

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gtgaagggtg ccaaggcgtg tgaagtctgg gacatccaag aacatgacca tcaagatgc 179

<210> 14636

<211> 104

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-H11

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<210> 14637

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-H12

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tggatggcgg tctagcgttg gcccatcgat gcttaactgg caatgagggtt ctcaggctgg 180
caaccggagc cattcctggt acccgggact acgataagca gcactgtgtg gatatgggtc 240
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gctaatcgta ggtatatatg tacataatac accatgtcgc tcttatgtcg actaatgttt 360
ggagtattgt aattgtagca tgcattgacga cctttgccca ttgttttgta ctctgtaata 420
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<210> 14638

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-H2

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ctccgggacc acggggccag cctacaacat tgacaatctg gtcaagtctc tcaaattcgt 360
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<210> 14639

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-H3

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ccagcgcaac gccgagctcg acccgagaa gaggtgtac cccggcggct cctactttga 180
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caaggggcca ctcaacaact gggccacca ccttagcgac cactccata ccaccatctt 360
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cgtg 424

<210> 14640

<211> 451

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-018-Q1-E1-H4

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catccgccgn accgatctat aatcaatcaa atcgccgctc tcgggcctgg cggtgccgc 420
agtcggcctg cggtgtactg ttagtctgct g 451

<210> 14641

<211> 300

<212> DNA

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<223> Clone ID: LIB36-018-Q1-E1-H6

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 ggagcaatta caactttgag aagcccttcc ttacctcgc taggaagctg gcaggggatc 180
 agaaccttca ctttgttgaa gctgttgctc ggaagccacc acaagtgcag attgatatgg 240
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<210> 14642

<211> 465

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-H7.

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 gaagaaggca tgatctacat gccatattgg atggatgcaa aatcttcttt tgcaagaggg 420
 agatatggtg ttcataaaaa atgccaacct cccaacggc acata 465

<210> 14643

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-H8

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cctctccgta gggcactggg tgtctcgtgg cggcggcggc ctccgggggca gtgttgcatg 300
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<210> 14644
 <211> 308
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-018-Q1-E1-H9
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 gaacgttgcc aaggctgtga agtctggggc agccaagaag aagaccaaga agatccgcac 180
 gtctgtgaca ttccaccgcc ccacgacct gaagaaggct agggacocca agtaccacg 240
 aatcagcact accggaagga acaagcttga tcagtaccaa attctcaagt acccccttac 300
 cacaggaa 308

<210> 14645
 <211> 429
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-019-Q1-E1-A10
 <400> 14645

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 ccgctacaga gcaagttctt cgagacgttc gcggctccgt tcaccaagag aggtctgctg 360
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 ccggacctc 429

<210> 14646
 <211> 385
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-019-Q1-E1-A6

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 aggcgcattgg aggaagagac caagcattct ctaagcattc ctaagcacca agactccaat 180
 tccgcgcatt cgattctttg tgatagcaac tagagctcca tttgagtaga gaactctttg 240
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<210> 14647
 <211> 281
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-019-Q1-E1-A8

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 caagtgccag aataagaacc atgtgccggg agccgacgtc cttcaccgtc aacggggacg 180
 gcagcaccaa gaacgcaccg cccgagttcc agaacaccaa gctcatgagg cgccgcattt 240
 agacgctgga ctagatcgag ggcccgtcgc acgtcagctc c 281

<210> 14648
 <211> 420
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-019-Q1-E1-A9

 <400> 14648

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tcgggggatcg cctectact gcgctccctc gccgcccggc gtgtcgtcgc tcttgacgca 120
gagtggaagc cgcgcgcgcg cggtagccct gccgctgccg accctgcggc cctggggcgac 180
gacacgacgc cggcgtccga gacatctcca gcgcgcgcga agttcccgac ggtgacgctg 240
ctccagggtg cctgccgctt cagcgatggt ggtggagggt agggcgagcg cagcgagggt 300
tttgtcgtcg atctgctttc cgtgccgctc gccgacctgt gggcaccgct gcgagagctg 360
ttcgagcggc ctgagacgct caagctgggg ttcaggttta agcaggacct ggtgtacctc 420

<210> 14649

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-B1

<400> 14649

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tatgtttctg ctttacgaat atgatatttt ttggacattt ctaataatag caagccttat 120
tcctattttg gtatttttga tttcaggact tttagccccg gttagtgaac gaccagagaa 180
gctttctagt tatgaatcgg gtatagaacc catggggggg gcttggttac aattccgaat 240
acgctattac atgtttgcgc aagtttttgt tgtttttgat gtggaaacag tctttctcta 300
accttgggca atgaatttcc acctattggg tgtatccctt tttatccaag ctttcattta 360
tgtgcttata caagttgttg 380

<210> 14650

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-B10

<400> 14650

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tcccacctcc tcaagtacga ctcgatgctc ggcaccttca aggcgcgacgt caagatcgtg 120
gacgacacga ccatcagcgt cgacggcaag cccatcacgg tcgtctccag caggcaccgg 180

ctcaagctcc catggggtga gctcggcatt gacatcgtca tcgagggcac cggagtcttc 240
 gtcgacggcc ccggcgccgg caagcacatc caggccggcg cgaagaaggt gatcatcacg 300
 gctcccgcca agggcgccga catcccgacc tatgtcgtcg gcgtcaacga gggcgactac 360
 gaccacagcg tcgccgacat catcagcaac gcgtcctgca cgatcaactg cctcgcgcca 420
 ttcgtcaaga tcttg 435

<210> 14651

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-B11

<400> 14651

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 gactacctga ggggtgtgtg aatgtcgttt ctggtttttg ccctactgct ggtgctgctc 120
 ttgctagtca catggatgtt gataagatcg catttactgg atctaccgat actggaaaaa 180
 ttattctcga gttggctgca aagagcaacc ttaagacagt gacactggag ttaggaggca 240
 agtccccctt catcataatg gacgatgctg atgttgacca tgctgttgag cttgcgcact 300
 ttgccctgtt ctttagccag ggacaatgct gctgcgctgg atctcgcacg tttgtacatg 360
 agcgtgttta tgatgagttt gtggagaagg ccaaggctcg tgcattgaag cgcgtcgttg 420
 gtgatccgtt cacgaaaggt g 441

<210> 14652

<211> 287

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-B3

<400> 14652

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 gcgagccgct gccgttcacc atctcgacgc tcattctggat cgaagtgtt gtgatcggct 180
 acatcgagtt ccagcgcaac gccgagctcg acccgagaaa gaggtgttac cccggcggct 240

cctacttttga cccgctcgcc ctggcgccg acccgagaa caaggag 287

<210> 14653

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-B4

<400> 14653

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agaagcgaga gagctgacaa gaatcgactg ccatcaatgg ctctggcgcc ggcgcctctc 120

cagtgttcc tcacgagcag cagaccggcc gtatgcacgg cgacgcgcgc caataagcgc 180

gcgaggaggc cgtcgaggat ctctgtcagg gcgtccggcg atgacaagga caaggtcccg 240

tcgtcgggag ggagcgatct tggggtcaag caactcggga agctggccat ggtecgcgctg 300

gccgccggcg tgctgggtgct cgggcccgtc gacagtgccg tggcgggcaa gtccggcggc 360

atggtcggcg ggcacgcgtt ccggtccac cccggtcgtc cggcctcgga tcaacaactc 420

caggaccaac atctaca 437

<210> 14654

<211> 453

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-019-Q1-E1-B7

<400> 14654

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tccaatttgg cctctctccc ttgcaagttt aagcttcac ttcagccatg ggtaaggaga 120

agtcccacat caacattgtg gtcattggcc acgtcgactc tggcaagtcg accaccaccg 180

gccacctgat ctacaagctt ggaggcattg acaagcgtgt aatagagagg tttgagaagg 240

aggetgctga gatgaacaag cggtccttca agtatgcttg ggtgctcgac aagctcaagg 300

ctgagcgtga gaggggtatc accattgata ttgctctgtg gaagtttgag accaccaagt 360

attactgcac cgtcattgat gccctggac accgtgactt catcaagaac atgatcactg 420

gtacctcnca ggctgactgt gctgtcctta tca 453

<210> 14655

<211> 242

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-B8

<400> 14655

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cacctaccta ggaccaccag caccggcggc aatggcggcc tccataatcc cctcgtcagc 120

cctggcggttg gcccctcagg gctgcccgc cctcgggcgc cgcccttctt ccttcccctt 180

cttcggctcc aaaagaagat tcagaaccaa caaccctaac ggaattgggg ttgccctaac 240

ct 242

<210> 14656

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-B9

<400> 14656

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aaaagccaaa aggcatacacc gccgcgacga cgatggcagc ctgcgtccaa gccgcggcca 120

ccctgatgca gccggccaag atcggcgggc gggcgccctt tgccctcgctg ccgtcccgcc 180

cgtcgtcgca actcgctgc agggcggttcg gcgtcgacgc cggcgccgcc aggatcacgt 240

gtccctcgca ggacgtcgcc agcaggtgcg tcgacgccgc gaagctcgcc ggcttcgcgc 300

tcgccacctc ggcgtcctc gtctcgggcg cgagcgcgga gggcacgcc aagaggctga 360

cctacgacga gatccagagc aaaacgtaca tggaggtgaa cggcacgggc acggggaa 418

<210> 14657

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-C1

<400> 14657

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tgaagaagct gtgcctggag cgcagctcct tcaccgtcaa ggcggagggc atcgccaaga 120
acgcgccgcc cgagttccag aagaccaagc tcatgacctg cctcacctac acgctggacg 180
agatcgaggg cccgctcgag gtcgcctccg acggcaccct caagtccgag gagaaggacg 240
gcatcgacta cgcgcgcgtc accgtgcagc tcccggggcg cgagcgcgtg cccttcctct 300
tcaacgtcaa gcagctcgtc gccaccggca agccggacag cttccgcggg cccttcctcg 360
tgcc 364

<210> 14658

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-C11

<400> 14658

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gctcggcgat tcccaggctc cgcgagaata tgccgaagca gatccatgag attaaggact 120
tcctcctcac cgcgaggagg aaggatgccc gctcagtga gatcaagagg agtaaggatg 180
ttgtcaagtt caaggtgcgc tgcaccaagt acttgtagac gctctgcgtc ttcgatgctg 240
agaaggcaaa caagttgaag caatctcgtc ccccagggtt gaccgtcgag gaggtctgat 300
tggatacatg gcaacgccga gttgaactac ccaagcttct ttatcagtag cagagcatgc 360
tactctatgt acttttgg 378

<210> 14659

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-C2

<400> 14659

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ctatccccaa aaccgcggga cgtatcagtg tcaggggtcc cccggggcca accgcagcag 120

aaccacaagg taaaggagga gaaggccaag ggggcaacct tccccgggcc gcaggccccc 180
 gaaaaggagc caaggaaggg gaacccccat tccctgcgcc ggaacccttt ggcgagaacc 240
 agaaacttga cccgcaatta cggcggccat tgc 273

<210> 14660
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-019-Q1-E1-C3
 <400> 14660

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 gaccaaggac gacgaacggg tcgatggcca cgctctctc ctgcagccgc ctgagtagcg 120
 gcaccggcgc cgcggccatc caccggcagc cggcccgtgc tggagccgtc ctcgtcgtca 180
 cctgcaggcg gagctcctcc gcgaccgtcc gcgccgcagc cgctgccacg gcggcggcgc 240
 cggctgccgt agagctgcag aacaaggggg tgtcgtctgc gacgtgggcg gatttcgagc 300
 tcgggcgggc gccggtctac tggaagacca gcagcgggct cgcgccctcg ccgggcgagg 360
 ggctgaccct gttctacaac ccggcggcga cgaggatggc ccgaacgaag tgttcggcgt 420
 ggcgttca 428

<210> 14661
 <211> 397
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-019-Q1-E1-C4
 <400> 14661

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 accggcggcg gcagcggcct tccgcgtgga ccggcgcgtg caggcgcgtg gcttcgagtt 180
 cactcgtgtc accgccgaag aggtggctcg tcgcctcccc gtcaccgaga cctgctgcca 240
 ggtaggtagc attagaatag gatacgcagg ccccgcgcg cgcgcgccgc tcgagtagta 300
 ttttatttgt ttttgtttcc atctcattat cgtctctatc ggccgcgcgc gtgatgacgg 360

agaccggatg tgggtcatgc agcccttcga ctggctc 397

<210> 14662

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-C6

<400> 14662

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tgactttgat gtcactatgg tgtttcctga accttgggtgc atgcctcgcc tcttcactgc 120

cgatattgct gctttctatg aggcttacta tactaacaaa ggtgtaaaga tcttgaaggg 180

cacgctagct gttgggttttg atgctgatgc caatgggtgat gtcactgcag ttaagctaaa 240

ggatggcaca gtacttgaag ccgatattgt tgttgctcggg gttggaggga gaccattgac 300

tactctcttc aagggtcaag ttgctgagga gaagggtgga atcaagactg acgcttcctt 360

tgaacaagc gttcctggag tatatgcat tggttatgtg gctaccttcc ctttgaagat 420

g 421

<210> 14663

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-C8

<400> 14663

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cattccccgc cgcctcgcgc ccccgctcgc ttcacttctc tagagatggc ggtgccgctg 120

ctgacgaaga agatcgtgaa gaagcgggtc aagcagttca agaggcccca cctcgaccgc 180

tacaagtgcc ttaagccaag ctggcgcagg ccaaagggtg ttgactcccg tgtcaggagg 240

aagttcaagg gatgcacctt gatgcccaac attggttatg gttctgacaa gtcgaccagg 300

cactacctcc ccaacaagtt caagaagttt gtgggtccaca acgtttctga gctggagtgt 360

ctcatgatgc acaacaggac ctactgcgct gaaattgtc acaacgtgtc cactaagaag 420

cgcaaggaga tcgtggagcg tg 442

<210> 14664
 <211> 430
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-019-Q1-E1-C9

 <400> 14664

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 caaaaactgg tcacgttggg tcaataatgg actatacatg catatttgga tatatattct 180
 agctgcatat acaaagtaag ttttgatctg tgctatatat atacctgaaa taaatggaga 240
 tttagcgtcg tcaactctgt ctacacccga aggaaaaggc ggtgaatgtg gtagagttca 300
 gcgcgagagc actgaagata ctgacgggga agctcaccat cgaggcttcg tacagagtta 360
 ccagccaaac aagagtggac atcaagctcg agagctcaac catcaccctt gagcagctga 420
 tgaacatatt 430

<210> 14665
 <211> 447
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB36-019-Q1-E1-D1

 <400> 14665

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 cgcgggcgcca tcgaccatgc agctcaagaa tcgccgcgaa gccgtgacgg cgacagtgtc 120
 cgtggccgta tcagtcctgg cgaccctggc gcgcaccgac ggcgcctctc gcgacaagtc 180
 cgacaaggca gccttgcttg ccgtgaagtc ggcgctgggc aacctactgg cgctctccgg 240
 ctggaactcc accgtggcct gctgctctg ggagggcatc tctgcaacg ccaccaccgg 300
 ccgcgtcacc gacctgaccg tcttcgcgct caacatctcg gcgccggctc cggccgccat 360
 cgccaacctc aacgcgctgc agagcgtcaa cctgggctac aaacagctgt accggagcat 420
 cccggcgctc ctggggccgcg cgcgctg 447

<210> 14666
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-D10

<400> 14666

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cgccgagagt tagctcactc gtctgcgtcc agctcagcta caccacattc gcaccaagtt 120
gccagcaagt tgcgagcaag gacgacgaac ggggtcaatag cgagtctctc gtcattgcagt 180
cgtctgagta gcggcagagg cgccgcagcg atccagcggc aaccggccgg tactggagcc 240
gtcctcgacc tctcctgcac gtggagcgcc ggcggaactg ttcgcgcagc atccgctgcg 300
aaggcgggtgg caccggcggc ggtagagctg cagtacaacg ggggtgtcact ggggacttgc 360
gcggaatttg agc 373

<210> 14667
<211> 306
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-D2

<400> 14667

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aaagtctaac catggaagaa cgtatgacac tatgcaacat ggttgttgaa gctggtggaa 120
acaacggtgt cgtgcctgct gatgaaacta catttaaata gcttgagggt acgacatcac 180
ttgattatca acctgtctat agtgatgctg atgccagatt ttttagtgac tatcggtttg 240
atgtagcgaa actggagcca gtagtctcca agccacattc gcttgacaac cgtgccctac 300
caagag 306

<210> 14668
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-D3

<400> 14668

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gagctgcctt tactcgtgtc tcgagaggct actaaagcag ctcacagtat gtagctttga 120
gcgacgtgca ttcaacagct accaaggaga tgcattctta gtccacaaag aagtgcagaa 180
ttatgaaagg tctatgcgct cataggcatc gggtttgatg cgcattctcag aagtaaactc 240
agatgctaga ctcccaagtc tcaactgctc gttgaaggga cgaagggtca gaaccaagtg 300
gtcgagcatg ctaagcacia atccttcccc ttgatgcagg caccctactt tcggaagggt. 360
gggatacaga tttcacagac agaggtcagg ctttcgga 398

<210> 14669

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-D5

<400> 14669

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gccgtcgctg tccgccttcg gcgaggcccg cgtgacgatg cgcaagacgg cggcgaaggc 180
caagccagcg gcggcgctcg ggagcccgtg gtacggcccc gaccgcgtgc tgtacctggg 240
cccatgtcg ggcgagccag cgagctacgt gacgggcgag ttcccgggcg actacggctg 300
ggacaccgcg gggctgtcgg cggaccggga gacgttcggc aagaaccggg gagctggagg 360
ggatccagtc cggctggggc atgctggggc cgctcggggg cgtcctcccg agctgctcgc 420
c 421

<210> 14670

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-D7

<400> 14670

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cgccgtcgag ggctaccgca tcgccggcgg cccgctcggc gaggtcgctg acccgctcta 120

tcccggcggc agcttcgacc cgctcggcct cgccgacgac cccgaggcct tcgctgagct 180
caaggtgaag gagctcaaga acggccgcct cgccatgttc tccatgttcg gattcttcgt 240
ccaggccatc gtcaccggga agggcccgtc cgagaacctc gctgaccaca ttgccgaccc 300
cgtcaacagc aacgcttggg cctacgccac caacttcgtc tccggcaagt gagggaggcg 360
ccgccgtga cctttaggtg tccggatgca tgtgagcgca cgctggtttt cggtttgtac 420
catgatgtta actattgttc aatcaacaag gaa 453

<210> 14671

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-D9

<400> 14671

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gcccgcgccg tggtcagaag gaggtccttc accgtgcgcg cctctctccg caaggccacc 120
ggcaccgccc ccgtggcaat ggtgccagc gccctgcttg ccggcgggtgc catggcccag 180
gaggtgctgc tggggcgcagg cgacggcggg ctcgtcttcg agcccagcca gttcacgcgc 240
aaggccggcg acaccatcac attcaagaac aacgccggct tccgcacaa cgtcgtcttc 300
gacgaagacg aggtgccgag cggcgtcgac gccaccaaga tctcgcagga cgagtacctc 360
aacgcgccag gcg 373

<210> 14672

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-E10

<400> 14672

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ttcaaggtea atgtctatga caagaagccg gagcttttcg ggctctctaa gtccggccag 180
gcccccaagt acatgggtgtt cgcttgctcc gactcccgtg tgtgcccatc ggtgaccctg 240

ggcctgcagc ccggcgaggc cttcacggtt cgcaacatag ccgccatggt cccaggctac 300
gacaagacca agtacaccgg catcgggtcc gccatcgagt acgctgtgtg cgctctcaag 360
gtggagggtcc tcgtgggtcat tggccatagc tgctgcggtg gcatcagggc gctcctctcg 420
ctccaggacg gcgcacctga c 441

<210> 14673

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-E11

<400> 14673

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ggccaccggc ccgcgcggcg ccggcgcggg gccatctgc gcgtccatgt ccatgtcttc 180
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gtcccgcgag atgaccgcgc gctacatgac ggacatgatc acctacgcgc acaccgacgt 300
cgtcatcgtg ggcgccgggt ccgcgggggt gtctgcgcgc tacgagctct ccaaggaccc 360
cgccgtgagc atcgccatcg tggagcagtc ggtg 394

<210> 14674

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-E12

<400> 14674

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cgacgcggag cgcgagccct ccgtcttctc caggatcacc aagttcgagg aggagctccg 120
cgcggtgctg cccacagagg tggaggccgc ccgcgtcgcc gtcgccgagg gcaccgcccc 180
cgtggccaac cggatcgcgg acagccgctc gttcccgtg taccgcttcg tgcgccagga 240
gctcggctgc gtgttcctca ccggcgagaa gctcaagtcc cccggcgagg agtgcaacaa 300
ggtgttcctc cggcatcagc cagggcaagc tcgtcgacgc catgctcgag tgc 353

<210> 14675
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-E3

<400> 14675

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agtcagtcac acagagccta ctagccagca ctacctacca gcagttcctc ccgtgtgcaa 120
actgcaaagc aagcaatgga catgggcttc tacaagcgcg ccagcagggg cggcggcatc 180
aagcacaagg cggcggcgat gcccttctac cccaggaaac cggcgcaggt ggcgcccgcc 240
gcgccggcgg cgcagcaagc cgtcagcaat gcgaaacagc cctcagcgac caccatgtgg 300
tcgattccgg caccgccatc gtcaaccgtg gtcgccatgg aggttgctgg aaacggcatg 360
gtgctcgacg gcgactccga cgtcgacagc cggggcgccct cgtacatatc caggggtgcag 420
gagcggctcc ggcgcaagcg catggccga 449

<210> 14676
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-E5

<400> 14676

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gatcgaagaa attacaagtg taaatacggc agacaaagtt gtttgggtag tagaacagac 120
gtgtactgtt cagttaatgt ttgtctcggt caacctgtaa ctaatacgtc atcttttttt 180
tcttgctcggg gaggatgtaa acagatcatg tgaaagatgt acaacgaaca atctatggaa 240
ccagagttag acgggcatgt atcctatgca aaagaggaaa ggagaacagg ggaggcggag 300
cgggggggta gcggcgggct ggcacgcgcg ggc 333

<210> 14677
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-E9

<400> 14677

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tctctcttct cgtcctctcc ctctcgcgcg tcgcgcactg cgggtgccctc gcagtcgcag 120
cagagcacga caccgagccc gaatcaaccg ccgccgtggc cgtcagcgac gacaacgtgc 180
tatccgaccc caccgtccac gctgaggcgg gcaccgccag cgccactgaa gaggaggcca 240
tcccggcgga gcagcagcag catgggttcg aactcctccg cctgccgtct caccggdctc 300
accaccacca ccacctctgg tggaaagcgc accacgggat ctaccgtgac gcgtcgcaca 360
agtccccgtg ttctggccac ggcgcgaggg gccagcaggc agtgagccac cgtgcc 416

<210> 14678

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-F1

<400> 14678

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gcactcgtct ccgcctcttc gtcctccacc accgccgtca cggcgctccc caggaatggg 120
cagcggggcgt cgtcctcctt cctcggcggc aagacgctgc tgagacaggg cgaggcggcc 180
cggccgtcgt tcgccgtgcg cgccgcggcg gaccccaaca ggccgatctg gttccccggc 240
agcacccttc cgccgtggct cgacggcagc cttcccggcg acttcggctt tgatccctgg 300
ggcctcggat ctgacgcgga gagcctgcgg tggaaacgtgc aggcggagct ggtgcactgc 360
cgggtgggcca tgctcggcgc ggcgggcac ttcaccccg aggttctga ccaag 415

<210> 14679

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-F10

<400> 14679

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gaaacttgcg gtgtcactgg ctggtagcct gagtgtgagt gagtgatcga gctagctgag 120
 ctccgatgcg cgctagctag gataccgccca taccacaagt cttcttcaca agtttaggag 180
 tgacaggaac aagagatcga tggcctctgg cagcgtgctc aagtcctccg tcctgcgcaa 240
 gacctccga agggggcgcc acgaggcaag ccggcgcgcg caggccgcgc agcgtctcca 300
 gggtcgtccg cgcctgccgc tacgcggacg ag 332

<210> 14680

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-F2

<400> 14680

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 tactctcgcg gctctcgcca gccagtctag ggtttcggtc ccggcgtgct tatccgcccc 120
 cgccggccat gtcgaagcaa ggagggaatg ccaagccgct gaaggcgccc aaggcctaca 180
 agaaggagta cgacgagacg gatcttgcatt atctgcagaa gaagaaagat gagggaaaaag 240
 cactgaagga gcttaaggcc aaggcacaga agggcgcgat tgggggctcg ggtctgaaga 300
 aaagtggaaa gaagatagac tggtcaccgc gtctccaata cctagaggat gatgaggcag 360
 ctgt 364

<210> 14681

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-F3

<400> 14681

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 aatgtggcgg tcatcgaggg agaaagcatg atggataagg atgaggatct gagcagcgac 120
 agcgaggacg aagaggtgga agatggaccc aaaaagaaaag gatggttctc atcaatgttc 180
 cagagtattt ctggtaacaa tgtattggag aagtctgac tgcagcctgc gctcaaagct 240
 ctcaaagata ggctgatggc aaagaacgtg ccttgtgcag gcagaggaaa ttgcagagaa 300

gctttgtgaa tctgtcgcag cttagccttga gggcaagaag ctaggatctt tcaactagaat 360
atcatcaaca gttcagacag ctatggagga tgcgcttctt cgtatcttga cccaaggcgc 420
tctattgaca tactgagggg tgtgcacgct gccca 454

<210> 14682

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-F4

<400> 14682

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gactgtgcga gggaggaaga ggcgaggaga agatgcagat cttegtgaag accctgacgg 120
ggaagaccat caccctcgag gtggagagca gcgacaccgt cgacaacgtc aaagccaaaa 180
tccaggacaa ggaagggatt cccccagatc aacagcgact gatattcgct ggcaagcagc 240
tggaggatgg acgcacgctg gctgactaca acatccaaaa ggagtcaact cttcatttgg 300
tcctcaggct taggggtgga accatgatca aggtcaaaac tctcactggg aaagagatcg 360
agatcgacat tgaaccact gactcgattg acaggatcaa ggagcgtgtt gaagagaaag 420
aaggcattcc tcccgtagc 439

<210> 14683

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-F5

<400> 14683

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atacgtgcct ccggcggaat atcggatatg agctcgcttt gttcgagtga gtaacgcgca 120
gcgactcctc tcccaaccag attttgatgg attttgggca cgcgtggcac agatcttctg 180
tatagccagc aaggaggcct ctccatctcc tccgggaagg ctgtgcagca atggagaagt 240
ataaacagca gactcagtta gcacccttga gagatacccc atttgctctc cgtggtgctc 300
ttggtagtgc aagctcatat cttgagcaag ccaggggcta cacgtcttcc cctctagcag 360

ctctgcgacc aaagatgtct tctactactg gaaatcgact cctgcaactcg agttgcccc 420
 tgtcatctcc tgtagcaaag cgcgcgctgt cgcc 454

<210> 14684

<211> 268

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-F8

<400> 14684

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 ccctccacgc cgccaccgat ttatacacgc ttcgtccgc cccgcgcga ccttctgttc 120
 cataccatgc cataccattt ctcdtgataa accatccaat ccagagttcc attccagtct 180
 gaattgctcc tcctaccttc tgataagcaa tcacgattgt gccatcaaca ctacagcgcc 240
 ccacgaaggc cgcccgcgc ccctctgt 268

<210> 14685

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-F9

<400> 14685

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 accttcgcgc agctcaaggt caaggagatc aagaacggcc gcctcgccat gttctccatg 120
 ttcggcttct tcgtccaggc catcgtcacc ggcaagggc ccctcgagaa cctgctcgac 180
 cacctcgacg accccgtcgc caacaacgcc tgggtctacg ccaccaagtt cgcaccaggg 240
 tottaagcta gctaccgggc cgcggcgtgc caggacattg tgttgtacac tactcgtttc 300
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<210> 14686

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-G10

<400> 14686

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gcggatgcgt cggagccccg agtcgaataa aagaggcagc atcctgtctt gcatttgctg 120
ctgcgccatg tgtgaacagc ctgtgtaata aacactgttg ctttcgtgtg tgttcattgc 180
cttttggttg gtctttgcat atcctactac tgctgatctt tttgtgaagc ttggattgga 240
tggacgcgtt ttcttcaccg taattccctt cttcctgagc gacgtgactg ttgattcgaa 300
caac 304

<210> 14687

<211> 234

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-G2

<400> 14687

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cagcaaccag gcctctcagc caggacgtct atggcctaga tccgcgctcc agcagccgac 120
gacgcagata cagatgccag tcgtccagg catcagcaca cgtcgaacgc gcaggcaaac 180
cgacatgccg tgcccatgct cgaggccaat gcaatccttg gccgtccata catc 234

<210> 14688

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-G3

<400> 14688

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caagctggtg gcggggggccg ccgtgtcggg gttccagcag aagagcgtgg agaacgtcga 120
caagcaggag gtcgccggcg cggcggccga gtcctgcac gggcggtccg cgtacggtaa 180
gctcgacgac aagccggccg ggcagtacgt cgagaaggcc gaggggtacc tgaaagagtt 240
cagcgcgggg cagccaacc gagcaagagc agcctgcggc ggc 283

<210> 14689

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-G4

<400> 14689

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tgctgccttt ctgggggtact ctctcatttt ggcgatactg cggacttcaa gtttaagaga 120

cgaagcttct agagtcacatg ttgccgctcc tattctggca tttgtgacaa cccacattct 180

gtacctcaac ttctatgagc ttgacaaagg cctaaacatg aaggtttgta ctgtgataag 240

cattgctcag tgtctcctgt gggcactgtg ggctgtcatg agtgggcacg gttcgcggct 300

caagatcata tctgtcgccg tcggagggtgc ggttgacgta cttgtggaag cctacgacat 360

tccaccgcca tggggatagc cagatggccg tgctatctgc ctgcgtgtgg ctatccccct 420

gtcgtacctt tg 432

<210> 14690

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-G9

<400> 14690

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ccacatcccg gataagtatt caggttgtgc attcagcctt gggtttgact ctttcactac 120

gatgtccctt ggaccaaata tttgtgccaa catgacgccc atggaaagat ctatatctgc 180

caaagaacct gagaattcag aggatttgcc tacagtagtt agaagcagtg atgaaatgga 240

cactagaaac agtggcgacg ttgcgtctga cacagttgac actcttcctg agtcgaagca 300

gagccatgaa agttgcgctt ctgttagtaa caagttcgac tctggagagt accaagtcac 360

tttgcgcacg gagttcacta agactgacgt tgccaattcc gggcgaattg tgcttccca 419

<210> 14691

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-H1

<400> 14691

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ctatgtatat catgtgtagt tactgatgat gtgtgtgcat ggtacttcgt acgcgtgttt 120
ggagatcgat gtgtgggtgtg tgtgtctctg catggacatt ttcctactct gcgttttttc 180
tctctctact gatagagtat atatgtgggtg tgtcaatata tgtgtgcacg tggtttttcgc 240
tcggcttttt atcaat 256

<210> 14692

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-H11

<400> 14692

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cgccacgcg tccgcagatc gagaggtaca tcacgacaaa gagaggcaag agagataggg 120
gaccggaggg cggcggggccg gggcccaaga ccgaggggct cgtgcgcagg aagctgatga 180
ggctcctgtc gctcgtcccc ttcggctgcc gtgctggacg catcgacgac gcgcgcgcgc 240
ccgtggacca cgctgccgcc gccgcccca ggaggcgccc gaggaggagg ggcaacagag 300
ccggccagct gctgggggct gctgcgggtg cgccgcaaca gtggggcccc tcgctcgggg 360

<210> 14693

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-H12

<400> 14693

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cgagagatcc ttggagtcag caatggagtc taccgcgcta atgaccgcga gactaccact 120
gctgacctct ggctcccgtt ccaaaccctt cccctttgct tccttcacca cggcggcttg 180
ccgtctcgcc tccgccccct gctccggcag cggcagcgtc gtcctgctgt cgcgcgggag 240

ccgcgattat gctggcggtg gttccttggg ctccgccg cgcggtcctg gggatacggc 300
ggacgccgga tccgagtcca tctgtctcag cgtccaaggg atgatgtgcg acgggtgcgc 360
cgcgagcgtg aagcggatcc tggagagcca a 391

<210> 14694

<211> 295

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-H2

<400> 14694

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gcaggggggc ggctgtccg agttctccg gctcaggagc tccgcgtcgc tgcccatgcg 120
ccggagtgcc gcgtctgacg acgtcatgtc cgccgtctcc ttcaggacgc acgcggtcgc 180
caccagctgt aggtcgcggc gggcgccac ggaggccaag ctgaagggtg ccatcatcgc 240
gttcggccgc agctggcgca agttcctgcg gtgctggcac gggcgcggcg acgcc 295

<210> 14695

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-H4

<400> 14695

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acaataaaga ttggatttta agcgatttgg ggggtgcttg cctgatctcc ccctgcgagg 180
tactgccggg ggattggatt tcggggaagt tttggtggtt tgatattcgg cttggccgga 240
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aagagggaca tgaagttctt cagcaacccc tacgtgcttg cgctcacggg cgctgcaaga 360
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<210> 14696

<211> 430

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-019-Q1-E1-H5
 <400> 14696

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 agtactatta gaacatcacc gtataccgtc accgggcagc caacagatag acccagatag 180
 atgagaacaa ttgccaaagg atacaagttg ccctacctta gtagagaggt aaaactcggc 240
 gccgccgcca ccgacgccga gtggccatgg ccaccatcag tcgtcctcaa cagcaagggtg 300
 agcggcagga ggcagctcta tggcacgccg ccctacagct acgcgccgtc cggccgagag 360
 gcgcatgcag cttcccattg ccaagacaca cagcgtccca gataagatga cgaccgccgt 420
 cgtccatgca 430

<210> 14697
 <211> 416
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB36-019-Q1-E1-H6
 <400> 14697

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 cccaccagc tctaccgtc ccgcgcttcg ctgggcaagc cggatgaagg gcttggcctg 180
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 gccgaccgcg tccccgacat ggagaagcgg aagctgatga acctcctcct cctcggcgcc 300
 atctcgttgc ccaccgtcgg catggtcgtc ncctacggcg ccttcttcgt cctgcccggc 360
 tccgggaacg ccggcgccgg gaactaccgc aaggacaagc tgggcaacca catcac 416

<210> 14698
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-H7

<400> 14698

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agtaccctga cctggaggag acgagcaccg ccgcgcaggc caccgtcgtc ctcggcgtgg 180
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gatcgacgac catggatatg attattatct atctagcttg tgggtggtggt tgaacaataa 360
taagcgaggc cgagctggct gccatacata ggtaatgtgt ggtgtgtgtg agacagagag 420
aaacagag 428

<210> 14699

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-H8

<400> 14699

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gatcaccccc atggagaaga tcatcagga tgccgtcgag agcctcaaga gccgaggcca 180
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gtcatggacc ttgctaagtt gctagcgtgg cttgtgtaac tagttgtaat aaataatgat 300
gtcaccagac gacgacgacg aacctgagaa ggaaaattga gctaatagct cgattttcag 360
ttcttaatca cgaagtttca ggtaccgaac tggattggat tctttgtcgc agatgaggcc 420
tagagacaca cgctgaacg 439

<210> 14700

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-H9

<400> 14700

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tggcgggtggc gcctcagggc ctgccgcccc tggcggcggc cgctctctcc ttgcgcgtcg 180
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agtacggcgc gaacgtcgac ggatacagcc caatctacaa cgaggatgac tgggtctccca 360
ccggcgacgt ctacgtcggg ggaaccactg ggcttctgat ctgggccgtc accctcgctg 420
ggatcctcgg cggcggcgcc ctctctgtct 450

<210> 14701

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-A11

<400> 14701

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ctgctgtgaa gaatcctaac cctaagggtgg tttatgatga gtacaaccat gaaagatata 180
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cagtgaccgt gaagtggcgt ggaaagccag tcttcatcag gcgtcggaca gacgatgaca 420
tcaagcttgc caacagtgtg gatg 444

<210> 14702

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-A3

<400> 14702

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 tgaagcgctt tgcagaagag tttgggtccag agtgggcaat gcagcatata atccctcagg 180
 tgctggagaa gatcaacaac ccacactatt tataccgcat gacgattctg caggcaatct 240
 ccttgctagc tctgtcatg ggtgcagaga tcacctgtca aaagctgctt ccagtcgtca 300
 ttaattcttc gaaggacaag gttcccaaca tcaagttcaa tgttgcgaaa gtactacagt 360
 cacttgtagc gatcctcgac caatctaccg tgaaccgtg cctcgttgag ctacgcgagg 420
 accctgacgt cgacg 435

<210> 14703
 <211> 443
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-020-Q1-E1-A4
 <400> 14703

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 gggggccatct cccccagct cctcgtgga gctcggcgct ctgcctccgt cgtctcgcgc 180
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 gatgtcgacc tcgggcgacg tagctatccg atctacatcg gcgcaagcct cctcgacgag 360
 cccggacctg ctgcagaggc atgttcatgg taagagggtt ctggtggtga ccaacacgac 420
 cgtcgcgcgc ctttacctgg aca 443

<210> 14704
 <211> 337
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-020-Q1-E1-A8
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 ctggactctt ccacgggaac gttcatcatt gccggccgcg acggcacgga ggatgggaat 180
 cgcgcgatct ccaactgggta tacggatttg gtcccgttcg ggcgcgtggt catggctaac 240
 cctgacctgc cacggacgtt ccagctagac gctcacctta acacgtacta cagagacacg 300
 ttttacatcc ctgatccggt tattggatcc ctgacga 337

<210> 14705
 <211> 446
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB36-020-Q1-E1-B10
 <400> 14705

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 ctggcgggtg cgcctcaggg cctgccgcc ctcggccgcc gcgcctcctc cttegcgcgc 180
 gtctgtcca agaagaagat caagaccgac aagccctacg ggattggggg tggcctgacc 240
 gtcgacgtcg acgccaacgg gagaaagggc aagggcaagg gcgtgtacca gttcgtcgac 300
 aagtacggcg cgaacgtcga cggatacagc ccaatctaca acgaggatga ctgggtctccc 360
 accggcgacg tctacgtcgg tggaaaccact gggcttctga tctgggccgt cnacctcgct 420
 gggattctcg gcggcggcgc cctcct 446

<210> 14706
 <211> 175
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-020-Q1-E1-B11
 <400> 14706

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 ggagcactcg cagtttcgcg tcacagctgg ccaccgtgat agcctcgctc tctcaggtcg 120
 tcgcgctaca ggcactcgcc cacctaggca tacggaccgc gcgctgcgcc atcct 175

<210> 14707
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-B2

<400> 14707

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actcatcatg aatccactaa ttgctgctgc ttccgttatt gctgctggat tggccgtagg 120
gcttgcttct attgggcccc gagttgggtca aggtactgct gcaggacaag ctgtagaagg 180
tattgcgaga cagccagaag cacaaggtaa aataagaggt actttattgc ttagtctagc 240
ttttatggaa gctttaacaa tttatggact ggttgtggca ctacgcgttt tatttgcgaa 300
accttttggt taatcctaaa aaacaacaat tagtccttta aaattagata cttttttctt 360
tttttagtac attggcattt gcctatg 387

<210> 14708
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-B3

<400> 14708

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gacgaccccg aggcttcgc cgagctcaag gtgaaggagc tcaagaacgg ccgcctcgcc 120
atgttttcca tggtcggctt cttcgtccag gccatcgta ccggttaagg cccgctcgag 180
aacctcgctg accacatcgc tgaccagtc aacaacaacg catgggccta cgccaccaac 240
ttcgtccccg gcaactaagc tcaacggcta tgctatgcaa cttcattgtc tttcggatcg 300
gagaagggtg acgtacgtg attgattgat gctgcgatat gcatgtgtgt catttgtttc 360
acgttgcatt gcataagcaa gtcgacatga ttagttggcg ttgtacacta agatgaacca 420
tgtttgtgca atagtgggtg tttttgttt 449

<210> 14709
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-B4

<400> 14709

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gtcgtcgatc gtggaggcgt tcacgtgtc gccgtgccc taccgggtga tctggtgct 180
gctgatgggtg acgtgtgtgc tgggcgcctc gtggttcttc acgtacgacg acttcacga 240
ggaggcgctc cagcagctga gctgggcgct gctgggcgtg cccatcgcg cgtctctct 300
catctgctgg atctctccg tcgactcctt cgagggtac ctgcgcttct actcgacgga 360
gagccgctgg aaggccgct acgagcgggg caccgccgat ggcagctcg actggggcg 419

<210> 14710

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-B6

<400> 14710

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ccgtgaagac gctcgccctg ttccggcaat ccaaggtcaa gaccgcgccg gcgaagaagg 120
ctgctgcgcc caagcccaag ccgaagggtg aggatggtat cttcggcacg tccggcgagg 180
tcggtttcac caaggagaac gagctgttcg tcggccgctg tgccatgctt ggctttgccg 240
catcgctact tggagaggcc attaccggga agggcactct tgcgcagctg aacctggaga 300
cgggcatccc catctacgat gcggagcccc tctctctgtt cttcatcctc ttcacctcc 360
ttggcgccat cagcgtcttc ggagacc 387

<210> 14711

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-B8

<400> 14711

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cgggagaacc aagagcagat agacatggcg ccccaccagc agcagcgggc gctgctcctg 120
 ttcccactcg tcttcctcct cctcctcctt gcccgcgcc tgcgcggcgc gtggggaaag 180
 gagggccaca tcatggtctg caagatcgcc gagaagtacc tgtcgggaga atgcggcggc 240
 ggcggtgcat gcgctgctgc cggagtcgcg gggcggggat ctgtcgacgg tgtgcccgtg 300
 ggcggaccag gtgcgctggc actaccactg ggccagcccg ctccactacg ccaacacccc 360
 ccaagtctgc aacttcaagt attctcggga ctgccacaat tctcgtggcc agcaagggat 420
 gtgcgtcgtc ggggctatca acaactacac ggacca 456

<210> 14712

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-020-Q1-E1-B9

<400> 14712

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 cgccagcccg cgccgtggtc agaaggaggt ccttcaccgt gcgcgcctct ctccgcaagg 120
 ccaccggcac cgccgccgtg gcaatggctg ccagcgcctt gcttgccggc ggtgccatgg 180
 cccaggaggt gctgctgggc gcaggcgacg gcgggctcgt cttcgagccc agccagttca 240
 ccgtcaaggc cggcgacacc atcacattca agaacaacgc eggcttcncg cacaacgtcg 300
 tcttcgacga agacgaagtg ccgagcggcg tcgacgccac caagatctcg caggangagt 360
 acctcaacgc gccaggcgag acctactccg ttcacctcac cgtgccggga acctacggct 420
 tccactgcg 429

<210> 14713

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-C1

<400> 14713

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aagcagtttc aaatcatctt cggaagtttt tggctgatca tagtgtactt ccattatttg 120
acaagactaa tactacagtg agccaaattc gcaatgggtga tggttggagc gatatgtcac 180
gtccttcaac tggttctgca caagtgaatc aactaccttc agtagtagat gactatatctc 240
ttcaagtgaag gagggatcct ccgataattg agcgagaacc tttggtagat cagagcattc 300
atcgctcacg cctatcacgt tatgg 325

<210> 14714

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-C10

<400> 14714

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accccgagac cttcgccaag aaccgcgagc tggaggtgat ccaactccgc tggggccatgc 120
tcggcgcgct cggctgcgtc ttccccgagc tgctctcccg caacggcgctc aagttcggcg 180
aggccgtctg gttcaaggcc ggctcccaga tcttcagcga gggcgggctg gactacctcg 240
gcaaccccag cctgatccac gcgcagagca tctctgccat ctgggcctgc caggctcgtgc 300
tcatgggtgc cgtcgagggc taccgcattg cggcggggcc gtcggcgag gtcgtcgacc 360
cgctgtacct tggcggcagc ttcgaccccc tcggcctggc cgacgacccc gaggccttcg 420
ccgagctcaa ggt 433

<210> 14715

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-C11

<400> 14715

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gatgtttctt tgatgctttt aaggataagg acttagcaga agtagtcatg tttgcaacta 180
agcctgagca atggaatcga agagaacagg tccgtcctgg tggtgccatc aggagccttc 240

taatctcggt cgagtgcgtc tgccctgaaa ccggtttcta aaagatcctg gagtgagcaa 300
tataggatga gtgaagtaat accatagtgt gctgccctga aaccgggttc taaaagatcc 360
tggagtgagc aatataggat gagtgaagta ataccatagt gtgcttgaaa gatatacttg 420
tttggatttt ctggct 436

<210> 14716
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-C3

<400> 14716

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gcagcagttg catgcgggag tcggcaagtt cgccgcgcgc gcatgctgga gctggaagaa 120
gaagcgcgag gagtccccct gcttcagggc cagactggcc gccaaagccgc cgcgcgcctc 180
accggcgaag ggcggcattg ttccggccag ctacgatgac gacggcgcta gcctcggcac 240
cgtgaagctg ccgggcaaca tcgacaccgc tcggttgag tccttgctct tccagtgggg 300
gaacagcctc tgccaaggcg tcaacctgcc acttcgggtg cctctcaagg tcgacaaggt 360
tgagggcgagg atcacgctac gg 382

<210> 14717
<211> 222
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB36-020-Q1-E1-C4

<400> 14717

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tggtcgatgc cgtacgtgtg tcnctgatac aatactatct tagtactgat gctagtcac 120
atatatatcg atcgagctcg cactgcgaa gtctgagata atgcatgtat gcttgacggc 180
gagatctgag gaaaaataat ttctatatat gcatgtttcg ag 222

<210> 14718
<211> 446

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-020-Q1-E1-C6
 <400> 14718

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 catattataa ggaaaaggaa ttatcatttg caggtagtga caaagttgca aattcagaag 180
 aaaacaaacc aaatggtgct gttaaacata tgcaaaatct ggacttgcca gcacaacaga 240
 aaaacgacaa aaatgattgt gatcgcaagg cagaggagtt ttcctctgca ttagaggatg 300
 aatcatcaaa atcaccaact catacagtgc caaaaccacc tagataccct ctacttctctg 360
 ttactttctca tgacagaagc atgctaagaa aggtaccaac tttggttcag ccttcgagta 420
 agcttgacaga tgagaagaac aacta 446

<210> 14719
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-C7
 <400> 14719

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 tcctccacgg cgatggccgg ccccccatc aaggtgggct ccttcggcga gggccgcac 120
 accatgcgca agaccgtggg caagcccaag gtggcgggct ccggcagccc ctggtacggc 180
 cccgaccgcy tcaagtacct cggccccttc tccggcgagc ccccgagcta cctcacgggc 240
 gagttccccg gcgactacgg ctgggacacc gccgggctgt ccgccgaccc cgagaccttc 300
 gccaagaacc gcgagctgga ggtgatccac tcccgtggg ccatgctcgg cgcgctcggc 360
 tgcgtcttcc ccgagctgct ctcccgaac ggcgtcaagt 400

<210> 14720
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-C8

<400> 14720

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aactcgaggg aaagcga aaa aaggagaggc ccgtctcaaa gccgcgggc ccaggaaaaa 120
atctgtgaca aggtccctga aagccgggct ccagttcccc gtctgccgca tcgggcgcta 180
cctcaagaaa ggccgctacg cgcagcgcgt cggcagcggg gccccgtct acctcgcggc 240
cgtcctggag tacctcgccg ctgaggctct ggagctcgcc ggcaacgctg ccaaggacaa 300
caagaagacg cgcacgtcc cgcgccacgt gctgctggcg atccgcaacg acgaggagct 360
cggaagctg ctgaccggcg tgaccatcgc ccacggcggc ctgttgccca acatca 416

<210> 14721

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-D1

<400> 14721

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acacgatggc gatctgcagc gcgcacacta ccacctccct gcgtcccca tgcacgaccg 120
tctcgaacgc aggtctgagg cagaagcaag tcattctcgt caccagcaac aggaggagcg 180
gcggcggcag gaggcacgga ggggcaagga gcttcaggt ctctgctcc gtcgacaagc 240
cgggtggtgat tggcctggcg gcagactcag ggtgcggcaa gagcaccttc atgcgccggc 300
tcaccagcgt ctctgggtggc gccgcggagc cggccaaggg cgggaacccg gactccaaca 360
cgctcatcag tgacaccacg acagtgatat gcctcgacga ctaccattcg ctggacagga 420
actgcaggaa ggagaaaggt gtgaccg 447

<210> 14722

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-D12

<400> 14722

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cttcaacgcc agcctcgact gccccgcccc ggcgggcggtcc taagtcaagg aggtatcctg 120
 tcgcatgttc catgacatgt gacattctaa agggggcagtt ggaagccaag cacatcaatg 180
 tttttaattt catctgtctt tactgtaatt gtataagttt acaatagatg catagaacag 240
 actggatcga taaaagcgcc ttcacagacc aaaaacccgg tatcacggta ctgggttcgtg 300
 catttcgtta gaaatgccct acgtcttatt ttgaaaagtt gtgcttgtat atcttactta 360
 ttgacaatag ctgtacttat aagactactt gcatacagaa gatcagtgag gtgca 415

<210> 14723

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-D4

<400> 14723

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 tccacaagca gccatggcgc caccatcac gtccctgtcg tctctcatgg cgtccagccc 120
 aatcccgcgc ccgccaccgc cgtccccgaa gaccagcggc agagcgctct ccgtcgcgcc 180
 ctgcggtccc gcgtcgctct cgtcgccgct cacttctctg actcctcatc cgggtggcggc 240
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 gctgtccccg gcgggcgacg ccggcgccac gcgcatcgag tactacgca cggtcgggga 360
 caagatgtgc gacctgagcc tcgtcaagtc cggcctcgcg tactgcgacg 410

<210> 14724

<211> 179

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-D6

<400> 14724

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 cgatataggg aacattccat agaggggtacg ttatttggtt ccaagccttt agccccca 179

<210> 14725
<211> 91
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-D7

<400> 14725

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acgtcccccg ggccggccgac atccccagcc g 91

<210> 14726
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-E1

<400> 14726

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cttaccacgg tccgggaagg cacatcctca ttgtgacggg tgcatccca atgctgagtg 180
ccgcaactgc caaagtcttt gacatccaag ccactgacca agctattgat tttgccattg 240
aaaatgcgaa gacgatgggg ctatgtaaaa ccgatgaatc cgttgtggcc ctgcaccgca 300
tacggatttc atctgtcatc aagcttctta ctgtgaagta tgggtccaaa ggtgacggac 360
accattttgc ttggtgaatt tttgtgaggc tacttactca cataagcgta tccacagctt 420
ttctattgcc aaagatac 438

<210> 14727
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-E2

<400> 14727

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gcgtggcctt ctccatcatc ggcgagatca tcacggggaa gggcgcgctg gcgcagctca 180

acatcgagac gggggtgccc atcaacgaga tagagccgct cgtcatcttc aacgtcgtct 240
tcttcgtcat cgcgcgcattc aaccccgga atggcaggtt catcatcggc gaggaagacg 300
aatatgctgc tggctgctgc tggctggcct cggacatgag tcgtgtgcgt ttacttttac 360
ctgtgactgt gcgtctcggg gcgcgcgcgt aagtgccttg 400

<210> 14728

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-E3

<400> 14728

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ggttctcccc aaacaccttc cagcccacca ttgtctcggc atcctgggac cgcaccgtca 180
aggtctggaa ccttaccac tgcaagctgc gctgcactct ggatgggcac ggtggctatg 240
ttaacgccgt cgctgtgagc cccgacgggt cgctgtgcgc ctccggcggg aaggacgggtg 300
ttactctgct gtgggatttg gctgagggga agaggctgta ctgcgtggac gggggctcca 360
tcatccactc tctctgcttc tcaccaacc gctactggct ctgcgtgcgc acgcacgact 420
ctgtcaagat ctgggacct 439

<210> 14729

<211> 116

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-E4

<400> 14729

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gcgggactac accgtcgtgg tctagagcct taacacctgg cagctggcgc tcatcc 116

<210> 14730

<211> 405

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB36-020-Q1-E1-E6

<400> 14730

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taagaaatag ctacttgggt gctacactat attcaataat tagatcttca gaaacagagg 180
gagaagagaa gaaacagctc attgggatgg cagcagcaac ctacagaccat gccttcaatg 240
caacgatttg ggatgtcctt gttgatcctt cataccaggg tcagggtctt ggtagagcac 300
tcattggagaa agtaattcgt actttgctcc agcagacat caacaacatt aactgtttg 360
cggataacaa agttatagat ttctacaaga acctgnggtt cgaag 405

<210> 14731
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-E7

<400> 14731

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ccccgggcag gtgctccgct acgaggacaa cttcgacgcc aacagcaacg tgtccgtcat 180
catccagccc acctccaaga aggccatcac cgagtacggc tcccccgagg agttcctctc 240
gcaggtcgac tacctgctcg gcaagcatgc ctacggcggc aagaccgact ccgagggcgg 300
gttcgagacc gacgccgtgg ccaccgcaa cgtgctggag agtccaccc ccgtgggtgga 360
cggcaagcag tactacagca tcaccgtgct gaccaggacg gcggacggcg a 411

<210> 14732
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-E8

<400> 14732

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 tgatcaacgg ccgctacgcc atgctggggc cgggtgggcgc catcgccccg gagatcttcg 240
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 cgcccgcggg cacctacaac tactggggcg actcctacac gctcttcgtc ttcaacatgg 360
 cgctcatggg cttcgccgag caccgcccgc tccaggactg gtacaaccgc ggctccatgg 420
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<210> 14733

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-F4

<400> 14733

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 attgggggtca tatcagtgat gctattttctg tctacgataa gctaataact gatcatcctg 180
 aagacttccg tggttattta gcaaagggaa tcatattaaa ggaaaatggg aaagcagggtg 240
 atgcagaaaag aatgtttatt caggcaaaat tcttcgcccc ggaggcagcg aaggcactag 300
 ttgatcgcta tgcgcaaaga tagtcgataa gagattgaat ggtgttggtt taaaccaatg 360
 agatcattcg gattccagaa aaacgatcaa catgtttgga acgtcttgta tgatagcaac 420
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<210> 14734

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-F5

<400> 14734

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cacctcgccg cgccgctcgg cctcgccccg ttgccccgcg gctgcgcctc tgctggcgtc 120
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 caggacgcgt gggacaaagt tgaggacaag tacgccgtgg ccaccatcgg tgctcgctgcc 300
 atcgtcgcgc tctggacggt agtaggtgcc atcaaggcca tcgacaagct tcctcttctg 360
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<210> 14735

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-F6

<400> 14735

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 ggggcagccg ggtgtcggcg aggaaccccc tgatgagcag gaacctggag aggaatggca 180
 ggatcacctg catgacgttt ccccgggact ggctgcggag ggacctgagc gtcacggct 240
 tcgggctcat cggctggatg gggcgtcca gcgtcccggc catcaacggc aacagcctca 300
 cggggctctt cttctccagc atcgccagg agctggcca cttccccacg cccccgccc 360
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<210> 14736

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-F7

<400> 14736

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 atcaaggtgg gtccttcgg cgaggccgc atcaccatgc gcaagaccgt gggcaagccc 180
 aaggtggcgg cgtccggcag cccctggtac ggccccgacc gcgtcaagta cctcgcccc 240

ttctccggcg agcccccgag ctacctcacc ggcgagttcc ccggcgacta ctgctgggac 300
 accgccgggc tgtccgccga ccccgagacc ttcgccaaga accgcgagct ggaggtgatc 360
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<210> 14737

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-F8

<400> 14737

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 gcgcgcggcg cgaagccgcg gcagctgagc tcgcagctcg cgctgccgtc gtcgtcctcc 180
 cgcggggcgg ccccgctccg cgcgtccacc gaggaggcgg tggaggcgcc caaggggttc 240
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 ctgctccgca aggcgcaggt ggaggagtcc tacgtcatca cgtggacgtc cccaaggag 360
 caggtgttcg agatgcccac cggcggcgcc gccatcatgc gagaggggcc caacctcttg 420
 aagctggcgc gcaag 435

<210> 14738

<211> 413

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-020-Q1-E1-G1

<400> 14738

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 gatcgagttc gtggccatcg ccttcgccga gcaccagcgc accatggaga atgacccgca 180
 gaagaagaag taccgccgcy gcgccttcga cccgctcggc ttctccaagg accccgcaa 240
 gttcgaggag tacaagctca aggagatcaa gaacggccgc ctgccatgc tggccttcgt 300
 cggcttctgc gtccagcagt cggcgtaccc cggcacccgc ccgctggaga acctcgcctc 360

ncacctcgcc gacccgtggc acaacaacat cggcgacatc aacatcccc aga 413

<210> 14739

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-020-Q1-E1-G3

<400> 14739

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agttagataa gttaggagtc gatagaaaaa gattaggctg ttatgctgtt gagtcctacc 180

ttgagcagat cttatcccat gggtttttcc atgctgaccc gcatccagga aacattgctg 240

ttgatgatgt caatggaggg agacttatct tctatgactt cgggatgatg ggaagtatca 300

gtcaaaatat tcgggaagga ttgcttgaag tattctatgg agtttatgaa aaggatcctg 360

acaaagtgct tcaagcaatg gttcaaatgg gtgtccttgt tctactgga gatatgactg 420

ctgtcagaag aaacgctc 438

<210> 14740

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-G4

<400> 14740

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gatctggcgc agtggttgagt tgtgggtttt caaaccagcc tcttcgcatt tagggaggaa 120

gatttgcatc tgtttatctc tttctcatac ctcatctacg tgggagcctc gatctgcctt 180

tttaacgtga gcccgcggtg ctacactttg ggcgcgccac tccggttctt aaagatcaat 240

cagctgtaat tttttctctg atggccactg gccacggtag cgttcatatt cttccgatta 300

gcaattgtat gtagaggaga gttgtgatgg aaagcatgtg tgtgtttgcc atgacgacgc 360

tgtaaaaacc tgaaacactt atttctaggg gggtttccac tccaaaatgg aagtggagag 420

atgtgtcctg ataattggtg cc

442

<210> 14741

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-G5

<400> 14741

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gcgcgctcgg ctgctgtctt cccgagctgc tgcgccgcaa cggcgtcaag ttcggcgagg 120
ccgtgtggtt caaggccggc tcccagatct tcagcgaggg cgggctggac tacctcggga 180
acccgagcct catccacgcg cagagcatcc ttgctatctg ggcttgccag gtcgtgctca 240
tgggcgccgt cgagggctac cgcctcgccg ggggcccgt cggcgaggtc gtcgacccgc 300
tctaccccg cggcagcttc gaccgctcg gcttcgccga cgaccccgag gccttcgccg 360
agctcaaggt caaggagctc aagaacggcc gcttcgccat gttctccatg ttcggattct 420
tcgtcc 426

<210> 14742

<211> 451

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-020-Q1-E1-G7

<400> 14742

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cgcgcccgt cgcgcagtgg tcagcaggag gtccttcacc gtgctgctt ctctccgcaa 180
ggccactgcc accgcccgcg tggccgttgc cgccagcgtc ctgcttgccg gcggcggcgc 240
catggcccat gaggtgctgc tgggcgcacg cgacggcggg ctgctcttcg agcccagcca 300
gttcaccgtc aaggccggcg acaccatcac cttcaagaac aacgccggct tccgcacaa 360
cgctgtgttc gacgaagacg aggtgccgag cggcgtcgac gcctccaaga tctcgcagga 420
ngagtacctc aacgcgccag gcgagaccta c 451

<210> 14743
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-G9

<400> 14743

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gcctcctcgt cctccaccac cgccgtcacg gcgctcccca ggaatgggca gcgggcgtcg 120
tcctccttcc tcggcggaac gacgctgctg agacaggccg aggcggcccg gccgtcgttc 180
gccgtgcgcg ccgcggcgga cccaacagg ccgatctggt tccccggcag caccctccg 240
ccgtggctcg acggcagcct tcccgccgac ttcggctttg atccctgggg cctcggatct 300
gacccggaga gcctgcggtg gaacgtgcag gcggagctgg tgcaactgccg gtgggcgatg 360
ctcggcgcg cgggcatctt catcccgag ttcctgacca agatcggcgt cctcaaacg 420
cccttctggt ac 432

<210> 14744
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-H1

<400> 14744

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gcgctcgtcg gaaaaaacag ctcaggtgag tcactacct cgctctcacc catctcgtgt 120
cttcctcacc ctcttctct gtcactctcg acgatctgga ggctcgcgatc tggaggtgtg 180
tctatcaagg ggattcccag gatcgcgtag gatctgcagc tctggagcgc gcgggcgtcg 240
gggaagtagc ggtaggatct gcagccggac gggacggggc ctgaaggctc agcgccgctc 300
tggacctcgc gtgggtgaag tccgaagcac agtggcctct ccttggtttc actctcctcc 360
tcgtcgttgt ccaatctggc gccagcaatg cccgagaagc gagcgtgct accaggaacg 420
cccgtgaa 428

<210> 14745
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-H10

<400> 14745

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 gccgtcaaag gcaccatatt agaagatcgt cgggggtgtg gattgcacgg tgcaggacga 180
 agacggcatc ctaaagcacc ttcgaggagg cgcggtattaa tacctctacg tgtcaggaat 240
 tgcagtcttg ccatcattca ggaggaggaa ggtacggacc gcactgctga aggctgcga 300
 ggactgggg ctccaatgga agcacgtgtt catggttctg aaggcgtacg aggatgacga 360
 cggcgctcga ggcctctact ccaaggcagg gtacagggtc gtgtcaaggg attcagactg 420
 ggt 423

<210> 14746
 <211> 313
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-H11

<400> 14746

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 agtatgacgc gaacgctggc ataacatacg ctcgagacca ggattgcaa gagcaggaca 180
 aacggggcca gcactggcac catactcgga gtgcgcattga gtacctattc ctctctcgct 240
 gagctcctgt tctctcaggt acaattcagc aagtaaggac tccactgcgc ataccgcgc 300
 aagcttagag gca 313

<210> 14747
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-H2

<400> 14747

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ctcggggagg tggtcgaccc gctgtaccct ggcggcagct tcgaccgct cgggctcgcc 180
gacgaccgga aggcgttcgc cgagctcaag gtgaaggaga tcaagaacgg ccgcctcgcc 240
atgttctcca tgttcggctt cttcgtgcag gctatcgta ccggcaagg cccctcgag 300
aacctcgccg accacatcgc cgacccgctc aacaacaacg cctgggctta cggcaccac 360
ttcgtcgccg gcaagtgagc gagggcatga tgcttgcatg cgtgtaccgt agacgtaccg 420
t 421

<210> 14748

<211> 89

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-H4

<400> 14748

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aaaaaaccat actaataaca tgtgttttt 89

<210> 14749

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-H6

<400> 14749

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caccaatggc ttactaccag gaggtggact actgctcgga ggaggtgagg tcggtggccc 120
cggccggctt cggccgccac ggaggcggcg tccagcagca cgtcgtcaag gagaagttcg 180
aggaggtcga cacggtctca cgcgccggcg ccaaccacca ccaccaccac catggtcacc 240
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ccggcgaggt ccacgagcgc agggagagct tcctcgccag ggctaactga gccgcccggc 360

ggccggcacc cagccccgtt cgtgcctgcc tgcgtgcctt atgtatgtct gtggttgact 420
ggttgtg 427

<210> 14750
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-H7

<400> 14750

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tctccacaat gcatcttgac ccagagctat gggggcctga tgtgaaagag ttcaaccag 180
agcgcttctc tgatgttcga cccagctac attcatactt gccatttggt gctggggccc 240
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tctccaagtt tgttttgaag ctctcaccac actaccagca ttctccaaca ctgaaactca 360
ttgtggagcc agaacttggg gtagacctca ccttaacgaa agtgcaaagt gtctgtacta 420

<210> 14751
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-H9

<400> 14751

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ggttccgacg atgtctactt ccattgcagg taacgtaatt ggtttcaaag ccttacgcgc 120
tctacgtttc ggcgatctac taattcccc tgcttagtca aaaactttcc aagggtccgc 180
tcacagtaac caagttgaaa tggataagtt gaacaagtac ggctgcctt tactgggatg 240
tactattcaa ccaaaattgg gattatccgc accaaattac tgtacagcgt gttatgagtg 300
tctactcagt gggcttgatt ttacaataga tgatgagaac gtaaactca 349

<210> 14752
<211> 409

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-021-Q1-E1-A10

 <400> 14752

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 acaacgccgt cgcgctcccc gccggaggca gaggcgacga ggaggagctc cagaaggaga 180
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 cggacaccgg cgaggtcatt ggcgtattcg agagcgtgca gccgtcggac accgacctcg 300
 gggctaaggc gcccaaggat gtcaagattc aggggggtctg gtacgcgcag ctcgagtgat 360
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<210> 14753
 <211> 259
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-021-Q1-E1-A12

 <400> 14753

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 ggcaacgcga cgatccgggtg caagtactgc agggcgagcc tgagcgtgat ccccggcgag 180
 cgcgccatcc agtgcgcgca atgcaactgc gtgaccgcga tccggcgggc cgaccgcac 240
 ccgctggcgc ggccggcgt 259

<210> 14754
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-021-Q1-E1-A2

 <400> 14754

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ccgcaaggcc accggcaccg ccgcggtggc aatgggtgcc agcgccctgc ttgccggcgg 180
 tgccatggcc cagcaggtgc tgctggggcg aggcgacggc gggctcctct tcgagcccag 240
 ccagttcacc gtcaaggccg gggacaccat cacattcaag aacaacgccg gcttccccga 300
 caacgtcgtc ttcgacgaag acgaggtgcc cagcggcgtc gacgccacta agatttcgca 360
 cgaggagtac ctcaacgccc caggccagac ctactccgtc accctcaccg tgcccgggaa 420
 acc 423

<210> 14755

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-A3

<400> 14755

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 tgcttcgaga cagggatccc gctcctgctg cagcgccctc gctagctccc ggacgcagaa 180
 aatatcacca ttgcctttcc agatgacggg gcgtggaagc ggttcacaaa gctgttacag 240
 cactttccaa tgatagtctg taacaacggt cggaatgtg acaagagaat agttcgtcta 300
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<210> 14756

<211> 379

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-021-Q1-E1-A4

<400> 14756

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 gcgcgcgacc ccctgcttcc tctctctctc ggtctctgct atcctggcgc ccgcgcgtgg 180
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ttccccgcgg cttccatcct ctactcgcca ttgcaagccg tggctcctcg ccgtgggatt 300
 tcnctctgcc cggccgagct cgccccggcc ccttctgtct gcagctcagg accccagctc 360
 ctctgctcgc ctggagctc 379

<210> 14757

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-A7

<400> 14757

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 aatagcttgc gacttcatca agctgaagca caaagcttgg gactcaaga agagcacaac 240
 aatgtaccaa ctttctacct aaagccttgg atatttgagg atccggagtg aagttaccat 300
 ggcacgttgc ctaagaatag gaaagtaatg tggttatgag gagatgtgta atttgggtggc 360
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<210> 14758

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-A8

<400> 14758

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 cagcgtcaag agcgtcaaca tgggcaccgt cggccacatc cccggcaagt gcggcgtctc 360
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accaagctaa tag

433

<210> 14759

<211> 421

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-021-Q1-E1-B10

<400> 14759

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aggcggcggc ggcggtgaag gcgttgctgc cggagtcggc gggcggggag ctgtcggcgg 120

tgtgcccgtg ggcggaccag gtgcgctggc actaccactg ggccagcccc ctccactacg 180

ccaacacccc ccaagtctgc aacttcaagt tttctcggga ctgccacaat tctcgtggcc 240

agcaagggat gtgcgtcgtc ggggctatca acaactacac ggaccagctc tacagctacg 300

gccagaagac ttcgtataac ctgacggaga gcctgatgtc cctggcacac ttcgtcggcg 360

acgtccacag ccgctgcacg tatgcttcga agatgactaa ggcggtaacn acatcacctg 420

c 421

<210> 14760

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-B12

<400> 14760

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gggcgagcct gatcctgtcg gcgggggtgt cgacgcggta cgtctactct gggtagcaga 180

aaaccgccgc gtcgacgcag gaggccgagg cctgggaggc ggcgaagaag gcctgcggcg 240

ggctccactt cctggccatc caggagaacc tcaactccga cggctgcgtc ggcttctggc 300

tcctgctgga cctgcccccg ccgcctgtat gatggatggt ctattctacc cggacgctac 360

ttcttctctg tcgtgcattt cgtcttgata gccactgtag catcatcgac gtctagtgtc 420

ag 422

<210> 14761
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 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-021-Q1-E1-B2

 <400> 14761

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 tcgtccccgg caactaagct caacggctat gctatgcaac ttcattgtct tcggatcgga 300
 gaggggtgtac gtacgtggat tgattgatgc tgcgagatgc atgtgtgtcc tttgtttcac 360
 gttgcattgc ataggcaagt ccagatgatg agtttgcgtt gtacactaag atgaaccatg 420
 tttgtgcaat agtgggggtt tttgtttccc 450

<210> 14762
 <211> 451
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-021-Q1-E1-B5

 <400> 14762

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 tggaaccctt gggacaagaa ggcaaaagca atgcaagatt ttgggggatgc agaatacaag 180
 agcatgctgt gtgtggagcc tgcagctgtt gagaggccta ttactctgaa acctggggaa 240
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 gatccatcga aggtccttca gggttgaaaa tctcacttt ctgcatcttg tacagaagtt 360
 cattgccctt gatatttgat gctgggctgg cgtcaacgcc gcatgttcct tttgccattt 420
 ccaacccta tatctctggt cccttttgta t 451

<210> 14763
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 14763

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 tcgtcgccg ccttcggcga ggcccgcgtg acgatgcgca agacggcggg gaaggccaag 180
 ccggcggcgg cgtccgggag cccgtggtac ggccccgacc gcgtgctgta cctgggcccc 240
 ctgtccggcg agccgccgag ctacctgacg ggcgagtcc cgggcgacta cggctgggac 300
 accgcggggc tgtcggcgga cccggagacg ttcgccaaaga accgggagct ggaggtgatt 360
 cactcncgct gggccatgct gggcgcgctc ggctgcgtct tncggagct gctcgccgc 420
 aacgg 425

<210> 14764
 <211> 430
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-021-Q1-E1-C1

 <400> 14764

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 tgtagtcgat gccctgatgt gatatccata ataattaatg cttgggtttt agtgtttcat 180
 ccttcttagt acagattatc tatattatat tcgtgctcat acatgtgcat catgcatctc 240
 atgaggtagg atagataatc gcgtgaagcg gaacatgac caagtcgacc gcaagcgtgg 300
 gccaatccac aggatgatgc tgatggacga acaggaagat ggatcatttg aacgagtgcc 360
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 ccagggtcat 430

<210> 14765

<211> 442
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-021-Q1-E1-C11

 <400> 14765

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cctttgcctt ttgatgtcat ttttgtagtgt ttctgcctga acactttcca tgttttaaac  180
atctgataca ttcatacatc caagtgttac tttttgtgga ctgctaagtt tgtacgcttg  240
cctgttaaag taaaatgtta atatgccata gtctgacact tggttagaga catttaacga  300
tcttaaagtg ttcatttcgt ttcgctgtgt atttataggt tgtctgcact tctagttttt  360
atttgataga atcatatgat ttttttcagg aggttttgtt tttcgaggaa ggagagccta  420
agattgatgg tgaacctggc ga                                           442
  
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<210> 14766
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-021-Q1-E1-C12

 <400> 14766

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aaagaaaagg tgctggagaa aaaagcagcc gctgagcttg agagagccaa ggagttctca  180
aaagctaaga ataaaagagc ggctatccaa tccttgaaga ggaaaaaact ttatgagcaa  240
caaattgagc agcttggaaa ttttcagttg agaatccatg atcagatgat catgttagaa  300
gcagctaaag ctacaacaga gactgttgat gcattgagaa ctggagctgc agctatgaaa  360
gcaatgcaaa aagcaacaaa cattgatgat gtagacaaga ccatggatga aattaatgaa  420
cagac                                           425
  
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<210> 14767
 <211> 412
 <212> DNA

<213> Zea mays
 <223> Clone ID: LIB36-021-Q1-E1-C6
 <400> 14767

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 cctaagaagc ggatggacaa gcttgacact gtcttttctt gccattctg caaccacggg 180
 agtagtggtg agtgccgaat tgacatgaag aatctgattg gcgaagcatc ttgtagaatc 240
 tgtcaggaaa acttcagcac aactgttaat gcactcactg agcctattga tatatatagt 300
 gaatggattg atgagtgtga gcgtgtcaac actgttgaag gcgacgatga tgcgtgagct 360
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<210> 14768
 <211> 355
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-021-Q1-E1-C7
 <400> 14768

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 ccgaccacat cgccgacccc gtcaacaaca acgcttgggc ttacgccacc aacttcgtcc 180
 ccggcaagtg agcgagggca tgatgcttgc atgcgtgtac cgtagacgta ccgtattcct 240
 acgtactgca gggtgcacca gtatttgtga agggagctgt gcgtgggagc cagagattgt 300
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<210> 14769
 <211> 431
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB36-021-Q1-E1-C8
 <400> 14769

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cccgtggtac ggccccgacc gcgtgctcta cctgggcccc ctgtccggcg ccccccgag 240
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cccggagacg ttcgccaaga accgggagct ggaggtcatc cactcncgct gggccatgct 360
gggcgcgttg ggctgcgtgt tncggagct gtcgccccgc aacggcgtca agttcggcca 420
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<210> 14770

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-D1

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atgtgtccgt catcatccag cccacgtcca agaagaccat cgccgactac ggctctcccg 180
aggagtccct ctcccaggtc gactacctgc tcggcaggca ggcctacggc ggcaagaccg 240
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ccccgtgat cgacgggaag cagtactacg ccgtgtcggg gtcacc 347

<210> 14771

<211> 265

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-D10

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atggtgtact tgtactatgt tgtaactaat gtaaaaatgc gatggtcgtt agatgctatg 180
tcctcttaat taaggcggac ctacatgcaa gtaaggatgc aaataagggt attcagtatt 240

taattgaata ctcattatatt tttgc

265

<210> 14772

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-021-Q1-E1-D11

<400> 14772

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agcgaagccc tcgcctgcgc ttggggcggtg gcggccagac caggcggtgg ggcctttggg 180

tagcgtcage cgccgcccgc ccttctcctc ctccgaggca gagtatggca aggatgtgga 240

cgagggtgaac cgcaagttcg cggaggcgcg ggaggagatc gaggcggcca tggagagcaa 300

ggagacggtc tacttcaacg aggaggcctc catcgcgctg gacgcengca acgaggcgct 360

cgctgctttc gacgcgcttt tagcgcgctt cncgcccacc gacgccgacg cgctccgccc 420

ctcca 425

<210> 14773

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-D2

<400> 14773

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tcgagcagcg acgatggcgg ctgtgctgaa cagcaggaag acgccgcatg tggttgccgt 120

gctgggtggcg gcggcgctgc tggcgctcgc cgcttcggcg gcgatacct gcgggcaggt 180

ggggtcgctg ctgggtccgt gcatcccgtc cgcgacgggg agggccagcg cgctccccgc 240

gtcgtgctgc agcggcgctc agagcctcaa cagcgcgcg cggaaccagcg cggaccgcca 300

ggcggcgctg cgctgcctca agagcctcgc caacagcgtc aagagcgtca acatgggcac 360

cgtcgccacc atccccggca agtgcgggcg c 391

<210> 14774
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB36-021-Q1-E1-D4

 <400> 14774

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 ggggcagccg ggtgtcggcg aggaaccccc tgatgagcag gaacctggag aggaatggca 180
 ggatcacctg catgacgttt ccccgggact ggctgcggag ggacctgagc gtcacggtct 240
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 cggggctctt cttctccagc atcgggcagg agctggccca cttccccacg cccccgccc 360
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<210> 14775
 <211> 393
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-021-Q1-E1-D6

 <400> 14775

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 tttttacggg tagttggatt ggttagttat attgtggcga tgctttggga agaatacctt 180
 tcttattttt tttgtgtgtt atatgttgcc ataaggtgtt tgcagtaata tttcctatgc 240
 aatagtgttg tcatgtgttg ttagacttgt atgcaaggca cgattaaatt aataatgtaa 300
 gaagtgggat tagcattttt gaaattgtct agccggtagt acttttagtg ttacttgaga 360
 gaatccttat tacaggatga tgatgatccc ttg 393

<210> 14776
 <211> 313
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-D8

<400> 14776

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gctgggacca ttcgccggcc gtctgcgcg ctgcggccga cggcgccctt ctccttcgcc 180
gccgcttcaa cgacgccccg cggccggctc gggctggggc tgaccacggt gccggcgggg 240
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gagcgaagct aca 313

<210> 14777

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-E1

<400> 14777

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gacggcattg aggatctttt caagagatac acagatccag caatcctcta gtttttcatt 360
cacctttttt ggcgaaaagt agcaatctc ggacaatata aagcccagaa aacataatac 420
aacctaggat tgttaggtcc atacat 446

<210> 14778

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-E12

<400> 14778

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taatctttca tgagtacagt gtcggagtca tgggccaatt tcttcaaaat tatcattaat 180
ttatgatgtt catgtaacta tagtcgtaag ataaggcagg gccgggttgg tttcatcacg 240
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<210> 14779

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-E4

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agagacagaa caggaatcgc gttacaacgt gtgtacttct cctggtaacg cgattcctgt 120
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cggatagggc ataggggtgg taatggatga cgatctaaat gttttttcat aaaatggtag 240
agtaggacat acattataaa ttttagtgta caatgaatat ccataagatt tgtttctaag 300
ccgatcttta tatctgatag tgtaaaacta tatcttaaaa tgtagaagaa ggaagctgcc 360
agagactcaa gcagggggg 378

<210> 14780

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-E5

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cgttgggtcac atctcaggcc attgcctctg accctagccc gctccaagac ttctgtgttg 180

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<210> 14781

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-E6

<400> 14781

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 gatcgtaaac gcggcgccct tctcgtctct gtactgaacc tggatctgca ggctgacatg 420
 ata 423

<210> 14782

<211> 381

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-021-Q1-E1-E8

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 aagacgctgc tgagacaggc cgaggcggcc cggcgcgtcgc tcgccgtgcg cgccgcggcg 180
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<210> 14783

<211> 169

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-E9

<400> 14783

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 aaggtaatat gtttggcttg ctaggcacgc tacacgctat ttggatgtag caacgttata 120
 accagctgta tacgcttttt aatcgacaac atttgaataa tatgtacat 169

<210> 14784

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-F10

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 cggcgaaaga caacaagaag acgcgcatca tcccgcgcca cgtgctcctg gcgatccgca 420
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<210> 14785

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-F11

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cgcggttgc gactacagcg gcagctctc aggttcgctc gctggcgccg acgaccgctg 240
cagaagaagc agcgggtccc tccccgcc ctctcaactg ggagtacctg gccgccgagt 300
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tgcgcaacgg cagcgtggcg cacgtgtctc tcccagcgg gctcgtcagc tctacaagc 420
ccgccatgtg gcacggcac 439

<210> 14786

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-F12

<400> 14786

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cgctcctacg gcgcgcctc cgccacaccg gcggccggtg aaccgagccg tggcgccgac 180
tgcgtgggtc cggccgccga ggaccccata aggagagtca tgttcttggc tccctggggc 240
cacacataaa acacagaccc agatctgggc ttgcaagagc atggccggat ctgcagagaa 300
ctgctcaacc atacttaaaa ggaactggag cttgtcttgt aaactatgga gcatgctgct 360
tgcaccacga acatgaacgc atggctgggt aactacgtag atatatg 407

<210> 14787

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-F2

<400> 14787

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caacgccaaa tcccgaagc ggttttcgcg gtcctatag tagtactagc tagcatatac 180
cgccatacca tatccatccg cctgtttggtt gttggctttg gtttggttcc gtcggcctgc 240
cgtggttttg gtgtggctcc gtccacgac caccatctg tcggcggtc ctcattgtga 300
agcttattga ggtctatgaa aatgatcctg agaacatgac taagattttt gacatcatgc 360
aaaacatgca agaatgtggt cagcccccca gtgattttgt ccaaagatac tggtactgat 420
cgggatctg 429

<210> 14788
<211> 366
<212> DNA
<213> Zea mays
<223> Clone ID: LIB36-021-Q1-E1-F3
<400> 14788

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ttcggcgagg cgggtgtggtt caaggccggc gcgcagatct tctcggaggg cgggctggac 180
tacctgggga accccaacct ggtgcacgca cagagcatcc tggccatctg ggcgtgccag 240
gtggtgctca tgggcttcgt cgagggtac cgcgtcggcg gcggcccgt cggggaaggg 300
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acgccg 366

<210> 14789
<211> 459
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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<400> 14789

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ccgcgtccgc cgtgcacaag ctctccacca acaccagcgg cagcatttcc ttcaggctct 180
acaccaaacc ctccccctcg gtgacagcag cctcagccac caattcgtca gtcctgactc 240
cagttgcccc ggcattctga ccagcggcag gggacgaaga agaagaagaa ggccccctctc 300
tcgacctctt ccgcgcgcag ctgcgcgcgg gcgactaccg gcaggcggac gagaccacgc 360
gggcgctgat catcgacctc gccggcgagc ccgcgaagcg ccgagggtac gtcttcttct 420
ccgaggtcna gttcatcccg gccgaggacc tcgcgcga 459

<210> 14790

<211> 192

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-F9

<400> 14790

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tgtaaaaagg aattgccatg ctgttttatg tccgcagcag gttcatgcc tgtgatatgt 120
gtaatcatga attgtacagt ttatctgtac cgcagcagtt tacgagaggt ctagtaaaag 180
cacattttac cc 192

<210> 14791

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-G1

<400> 14791

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gacgtgatgc gcttcgtgca gcgcgtgcgc tgctgggagt acaggcagca gccgtccatc 180
gtccgcctca ccaggccac ccgccccgac aaggcccgtc gtctcggcta caaggccaag 240
cagggatatg ttgtctaccg tgtccgtgtg aagcgtggtg gcaggaagag gcctgtgccc 300
aagggtattg tctatggcaa gcccaagcag cagggtatca cgcagctcaa gttccagagg 360
aacaagaggt ctgtcgctga ggagagagct ggacgtaagc ttggtgggac tga 413

<210> 14792
<211> 120
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-G10

<400> 14792

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agtagatctc ttaaattggtt cttagtggtta ccataagata cataatatat ttatcatgag 120

<210> 14793
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-G11

<400> 14793

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ggttgcttaa tttgtcctcc gccactgctc gagtcattgc tccctccctc cctgtttccc 180

tggcggactc tgatgctget gctctcctgg aggctagcgc tactcttcgg ctggatcccc 240

acagctggtc cctccgggca gcgccccgctc tcctcggctc cggccgtgcc tctcctcgtc 300

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cgcttcgcgg acgacgtcgt ggacaaagac aa 392

<210> 14794
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-G12

<400> 14794

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cggaaggaag ctgcgccgtc ccaggccgtc ggcccgtccc atccgcaggc cccgcgcagc 180

cgccgtggtg gccaaagtacg gcgacaagag cgtctacttt gacctcgacg acatcggcaa 240
caccaccgga cagtgggacc tctacggctc tgacgcgccc tcgccctaca acccgctaca 300
gagcaagttc ttcgagacgt tcgcggctcc gttcaccaag agaggtctgc tgctcaagtt 360
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cctgcc 426

<210> 14795

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-G3

<400> 14795

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ccatgttcgg ctgcaacgac gccaccagg tgtacaagga gctgcaggag gccatcaaat 180
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tcagettcat cgctacaag cccccgggca gcgactagac cgcgcccgcg ggccgcccc 300
cgccggctag ctagctagct agtcctgcg tgagctagta gctagtgcc tgcgtcgtct 360
ctgtcgttcg gttttgcttc gggtcaccgt 390

<210> 14796

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-G4

<400> 14796

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gttcctgatg acatacgagc acctcaagcc acagaagctc tcgcagcgct atgttcctcg 120
tgtctttggc ttcaagctcc acaagccatg aacctcatgt atttgctggt taaactcctc 180
aagacgtggc actgggggca tgcgggagtt ttgcaatctt tgacgacttg catataagag 240
cgccattggc aggtcagtggt attggtaaaa ttctatcatg ctgcagcgtg cttgtacctt 300

agctggctgg cacctatcca acatttgaat gtagctctaa tgatatcaat gttgtaacct 360
aagtgcctatg gttcgttgat tagttaacca ggaccccc 398

<210> 14797

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-G5

<400> 14797

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ctgaatttgt tgatgctgac ccccatgggt gtaccaatc cgctgctgat cccaatgtgg 120
gtgctccatc tgttgctgat cccaatgggg gtgctgcttg tgttgccaat gtagacgagg 180
aggaggagga agatgaagtt cctttgactc ggaaaaacag tcggcagttc atcgccagcg 240
gtgaaagtag tggagttccc tctcctgctt tgtctgctct cattgggtctg caagaactgt 300
ccctggccaa ctttgatcag actcttgagg acatgggtcc agaggacttg ttacctgagc 360
cagtggatga tgggtgtgat gacgtttgcg ctgatgtgct tgatgctggg ttgatgtcat 420
cacgtccctc gtcgacctta gaacgcg 447

<210> 14798

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-G6

<400> 14798

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gctgggtccat gcgaatcaaa tctttgctca gaatccatcg tggccagtca ttgcggtcac 120
tggaaaagct atcgaggaaa cagctgctgt catcttgggg atcctccatg acaggaagca 180
gaagtgtccc atgccacgca tatcaaaacg atactagtag tgtgttctat cccttctcta 240
ctacaccttg taatctgtgc atgttttgaa taagctttgt gtcaagcacc atagccttca 300
tgtaattttt ttttgttgga ccaccttcta ggtggtgccg tgtgtatcat aaacataact 360
tgaagtttag tgcaccagag acacatgtat 390

<210> 14799
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB36-021-Q1-E1-G8

<400> 14799

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 acctcccact gtcctttcgt ccagtcacca gccctgcagc ccaaccgtgg aggttctgga 120
 aggcggtgta tcccttctag aaccttctcg agatgcagag cgccgaggct ttccggccgt 180
 gcccactcgt gctgctggtg agcagccctt gtcgccccct cctctcggcc cgcccgttcc 240
 gtgtctccgc cgtggcgcc gtcgtacca gaagcagcgc cgtgggccct cgcggtctgg 300
 ggctcgggct gctgccagcc tcgcccgatc gggatggcaa gtgccgccag cgacaggtgt 360
 catgcagcgc ggccggggat gctgtggcgg ccccgaaagc ggaagaaaga ngcgggctca 420
 tga 423

<210> 14800
 <211> 363
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-021-Q1-E1-G9
 <400> 14800

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 tggagtaccg ttgcttcgtc ggcggacttg cctgggccac cagcaacgag tcgctggaga 180
 atgccttcgc ctcctacggc gagatcctcg actccaaggt catcacgac cgggagacgg 240
 ggaggtcccg cggcttcggc ttcgttacct tctcctccga gaactccatg ctcgacgcta 300
 tcgagaacat gaacggcaag gagctcgact gccgtaacat caccgttaac caggcccagt 360
 ccc 363

<210> 14801

<211> 357
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-021-Q1-E1-H1

 <400> 14801

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 acccagctct accggtcccc cgcttcgctg ggcaagccgg tgaaggggct tggcctgagc 180
 atggggccgc agcgcgcccc gcggagcatt gtgtgccagg cggcgagcag catctccgcc 240
 gaccgcgtcc ccgacatgga gaagcggaag ctgatgaacc tcctcctcct cggcgccatc 300
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<210> 14802
 <211> 414
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB36-021-Q1-E1-H10

 <400> 14802

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 cctgacctgg aggagacgag caccgcgcgc caggccaccg tcgtcctcgg cgtggccccg 180
 gagaagaagg ccgcgcccga gttcgtcgag gccgcggcgg agtcggcgga ggccgcccac 240
 ggctgcagct gcggtggcaa ctgcaagtgc gaccctgca actgctgata acatcgatcg 300
 acgacctgg atatgattat tatctatcta gcttggtgtg gtggttgaaac aataataagc 360
 gaggccgagc tggctgccat acatangtat tgtgtggtgt gtgtgagaga gaga 414

<210> 14803
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB36-021-Q1-E1-H12

<400> 14803

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aatggaagtc tacaagacat agaagggatt cggaagagta tagaagcacg tacgaaacag 120
ttgctgcctt tatataccca gattgcaata cggtttgctg aattgcatga tacttcccta 180
agaatggcag ctaaagggtg gattaagaaa gttgtagact gggaagaatc acgctcgttc 240
ttctataaaa ggctacggan gaagatcgca gaagatgttc ttgcaaaaga aataaggcag 300
atagtcgggtg ataaatttac gcaccaatta gcaatggagc tcatcaagga attgtacctt 360
gcttctcaag ccacaacang aagcactgga tgggatgacg atgatgcttt tgttgcct 418

<210> 14804

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-H4

<400> 14804

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cgccgcggcg agcacattcc tgggcacccg cctggcggac ccggtgccgc agaacgggcg 120
catcgtggcc cggttcgggt tcggcggcgg aaagcccaag gctgccgtcc cgaagaaggt 180
ggcgaagacg tcgatctcct ctgaccggcc gctgtggttc ccggcgcccg tggcgcccg 240
ctacctcgac ggctcgctgg tcggcgacta cgggttcgac ccgttcgggc tcgggaagcc 300
cgtggagtac ctgcagttcg aactggactc gctggaccag aacctggcca agaacgaggc 360
cggcggcatc atcggcaccg ggttcgagtc ctccgacgtc aagtccaccg cgctccagcc 420
ctacagcgag gtgttcgggc 440

<210> 14805

<211> 108

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-H5

<400> 14805

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tgcatgctgt tttgtaataa ttaattaata tcccagccca ttggatgg 108

<210> 14806

<211> 269

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-021-Q1-E1-H6

<400> 14806

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gtcccagatc ttcagcgagg gcgggcttga ctacctcggc aacccgagcc tgatccacgc 120

gcagagcatc ctggccatct gggcggtgcc ggtggtgctc atggggcgccg tcgaggggta 180

ccgcacgcgc ggtggcccg cgggggaggt ggtcgacncg ctggtacccg gcggcagctt 240

cgacncgctc gggctcgccg acgaccgg 269

<210> 14807

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-H7

<400> 14807

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ggtggagaac ttgatgaaca ttgagagata ctcccatgtt atgcacatca gctcaacggt 120

tagtggacag ttggatgac atctccagag ttgggatgcc ttgagagctg ccttgcccg 180

tgggacagtc agtgggtcac cagaggtgaa cgccatggag ttgattgata agttggaagt 240

tacgaggcga tgaccatata gtgggtggtct aggaggaata tcgtttgatg gtgacatgca 300

aattgcactt tctctccgca ccacggggtt ctcaagagcg ccgagccaca ggacgatgta 360

ctcatacaga tgcgcagagt aggtccgga gtgggtcg 398

<210> 14808

<211> 455

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-022-Q1-E1-A10

<400> 14808

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tgcacaagcg ccgagccacc ggtggaaagc agaaggcctg gaggaagaag cgaaagtatg 180
agcttgggtcg ccagccagcc aacaccaagt tgtcaagcaa taagacagtg aggagggtcc 240
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ggggaagtga agctgttacc cgcaagaccc gtatcctcga cgtgggtctac aatgcatcaa 360
acaatgagct tgtgaggaca caaaccttg gtaagagtgc cattgggcac gttgatgctg 420
ccccattcaa gcagtgggtan ctcaactcact atgga 455

<210> 14809

<211> 476

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-022-Q1-E1-A11

<400> 14809

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gagtggctat ccatatcgac tgaactatgt ggaggtacac atatcacaaa cacaagagat 180
gctaaagcat ttgcactctt atctgaggag ggtattgcaa aaggagttag gaggataaca 240
gccgtgactg ctggatgtgc caccagggt atggagttgg cgtcatctat cgattctgat 300
atcaataaag catctcagtt ggagggagct ttgttggaag agaaaattgc ttccatcaag 360
agtgggctgg atgcagctgc tatccctgct gcgagaaaag ctgatttgag aggcaagggt 420
tcaaagttag aggacgaact tatgaaggca aanaagaaaa tgggggagca aaatat 476

<210> 14810

<211> 187

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-A2

<400> 14810

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gagtttttga acgcaagttg cgcccgaagc cttctggcgg agggcacgtc tgcctgggcg 180
tcacgcc 187

<210> 14811

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-A5

<400> 14811

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atggtcttca gcacagaagg cgaggtoccc tacagagagg gccagtccat cggcgtcatc 180
gcggatggcg aggacaagaa cggcaagccg cacaagctca ggctctactc catcgccagc 240
agcgccctcg gagatttcgg cgactccaag acggtgtcgc tgtgcgtgaa gaggctggtc 300
tacaccaacg atcaggggga ggtcgtcaaa ggagtctgct cgaacttcct ctgtgacttg 360

<210> 14812

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-A7

<400> 14812

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ggctgatggg gattgtggat ggtggtgtcg gcatagttgt gttacgtttc ttcgatgcgt 180
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gttgtgctaa gacaaatcag tcagtcgttt tgtgaaccta ttatgatgga gctttatttg 360

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370

<210> 14813

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-A9

<400> 14813

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ccccgtcgct agcggccccg gcagccaaga ggaggcccg cgcggcgctc acgtacgtgg 180

agggcatgaa cgcctacagc ggccctcaagg ggctcaacaa ggtgaccatg ctcggggtgc 240

gcaagaccgc cgactactcc ttgcgcaagg tcgtggcgctc gctcagcccc gcgggcagga 300

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<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-B10

<400> 14814

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cagcgggaagc agcaatggtg atggcgctcg cgagcgggct gaggagctgc agcgccgtgg 120

gcgtgcccag cctgctggct ccgtcgctcc ggtccggccg cctggcgccg ttctgcgcca 180

acgccaccac ctctggccgc gtcaccatgt ccgcgagatg gatgcccggc cagccacgcc 240

ctgcccacct cgacggctcc tctcccgagg acttcggctt cgatccgctg ggccctcgca 300

ccgtgcccga gaacttcgag cgggttcaagg agtcagaggt gtaccactgc cgctgggcca 360

tgcttgccgt ccccgggatc ctgggtgccg aagctctggg cctgggcaac tgggtga 417

<210> 14815

<211> 423

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-022-Q1-E1-B12

 <400> 14815

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 tacgtcgacg cgctcgctcc ggacgtcggc ggcaactccc acccgagct ggacaagtgc 240
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 ttctgggaca cggagtacta caaggacctc ggcgcgctcg gcgagcagca ccacacgacc 360
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 ccc 423

<210> 14816
 <211> 402
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-022-Q1-E1-B2

 <400> 14816

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 tggatcgaag agtggaacgc cggcgcgag aacctcgagt tcaatttccg ctggaccgcg 180
 cgcagcctcg ccgtcgtcgg cctcttcggc ctcgtgtcc ccatactcgt ctacaagggc 240
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 taagcggcgt ccagggctgc aggagacgtc gatccctcga ccggggctgc gaggagggga 360
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<210> 14817
 <211> 406
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-022-Q1-E1-B4

<400> 14817

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acgtacgacg acgacgacgc aggcgccaca catggcatcc cagctctccg ccgccgtgcc 120
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cgccaccaac ctgatcatgg tgacgacgac gacgctgatg ctgttcgcgg ggccggttcgg 300
gctggcgccg tccgcgaacc gcaaggcgac ggccgggctg aagctggagg cgcgcgactc 360
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<210> 14818

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-B5

<400> 14818

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gcatcgtggc ccggttcggg ttccggcgcg gaaagccaa ggctgccgtc ccgaagaagg 180
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actacctga cggctcgtg gtcggcgact acgggttcga cccgttcggg ctccggaagc 300
ccgtggagta cctgcagttc gaactggact cgctggacca gaacctggcc aagaacgagg 360
ccggcgccat catcggcacc cggttcgagt cctccgaagt taattccacc cg 412

<210> 14819

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-B7

<400> 14819

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cggcggccgg ggcgcgtccg cctcgtgcc gtcgtcccgc ccgtcgtcgc aactcgccag 180
ggcgttcggc gtcgacgccg gcgccgccag gatacgtgc tccctccagt ccgacgtcag 240
ggacgtcgcc agcaagtgcg tcgacgccgc caagctcgcc ggcttcgcgc tcgccacctc 300
ggcgctcctc gtctcgggcg cgagcgcgga cggcacgccc aagaggctga cctacgacga 360
gatccacagc aggacgtacc tgaaagtga g 391

<210> 14820

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-B9

<400> 14820

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cactccgtga ggagagccga ccgctgctgc ggcgacaata cacctggcgc aagttccatg 180
aacacgggct caggtccggc cgttctaaga gattcggttc agcgaacgtg ggcgcccttc 240
cgtctctgga cgtcgtgccg ctgatggtga c 271

<210> 14821

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-C1

<400> 14821

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gcgcgaagcg ccaccggaag gtgctccgcg acaacatcca ggcatcacc aagccggcga 180
tccggaggct ggctaggagg ggtggcgtga agcgcattctc ggggctcatc tacgaggaga 240
cccgcggcgt gctcaagatc tttctcgaga acgtcatccg cgacgccgtc acctacaccg 300
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gccgcaccct ctaagggtc 379

<210> 14822
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-022-Q1-E1-C10

 <400> 14822

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 tctagaagat gaacaaccta aaaagaaggt tagattaggg agcccagcgg ctcaatggat 180
 ttcagtttat aatgctaggc gacccatgaa gcagaggtac cattacaatg tggctgactc 240
 aaggctaagt caacatatag aaaagggtaa tgatgacggg ctttacgtta gttgtgtggc 300
 ttcttcggca aacctttggg cactcatcat ggacgcagga actggtttct gttctcaagt 360
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 ttactacata acagcaattg ctgg 444

<210> 14823
 <211> 394
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-022-Q1-E1-C11

 <400> 14823

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 ccgtcgctcc ggtccggccg cctggcgccg ttctgcgcca acgccaccac ctctggccgc 180
 gtcacatgt ccgcgagtg gatgcccggc cagccacgcc ctgcccacct cgacggctcc 240
 tctcccgggg acttcggctt cgatccgctg ggcttcgga ccggtgccga gaacttcgag 300
 cggttcaagg agtcagaggt gtaccactgc cgctgggcca tgcttgccgt ccccgggatc 360
 ctggtgcccg aagctctggg cctgggcaac tggg 394

<210> 14824
 <211> 334

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-022-Q1-E1-C3
 <400> 14824

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 ctccctgcac cctttccact cttccaccaa aatcgtgctg ctgccaccac agaccggcct 180
 gctcacatcc gccaggcaca ggcggcgctt ggccggcacgg agcagcacct cggagagcag 240
 cacgggatgac tccaatccc cgaaacacga gaacgcgccc ttcgggtaca ccaggaaaga 300
 cctgctgctg atcgggcccc gagtcaccgc ctcc 334

<210> 14825
 <211> 292
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-022-Q1-E1-C4
 <400> 14825

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 agatattgtc tggccaacgt atatacgagt acgtaattag cttcaaaata atgttcccct 180
 cgcctttatt tgctgttcaa gtccctgtaa taaccgagaa cgtaattgt agcagtgtgt 240
 tttttatatg actacataac tactatgttg tagaatgcta gtgcagctgt gc 292

<210> 14826
 <211> 385
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-022-Q1-E1-C5
 <400> 14826

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 ccctgggtac cgcccgagc tctacatgag gacaaccgat gtgacaggga atgtgactgt 180

gattatgaat gacaaagatg aggaggcgaa gatgtgcatg cctggtgacc gtatcaagat 240
 ggttggtcag ctcatccagc ctgttgcttg tgagcacggt atgaggtttg ctatccgtaa 300
 ggggtggtaag actgttgggtg ctggtgtcat caacaaaatc attgagtaaa ctggatatat 360
 catacccacc acgagaattt tcctt 385

<210> 14827

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-C6

<400> 14827

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 gccccgcgcg gccggccttc ttcttttctg cgtcctccct ccgcgcgcgcg ccggcgctta 180
 ccgcctgggc gctgcctgcg gccaaagtgg gcatcatggg ccgtagcgcc agcagcaggc 240
 gcaggtgctg cgcgcaggcc acctacaacg tgaagctgat cacgccggag ggggaggtgg 300
 agctgcaggt gcccgcgcgc gtgtacatcc tggaccaggc cgaggaggac ggcacgcacc 360
 tgcctactc ctgccgcgcg gggctctgct cctcctgcg 399

<210> 14828

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-D1

<400> 14828

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 gaggacgaga tcgacccga gctgcgctac tccttccagc ggaacagcag gtttctgaag 180
 agagttttta gcgtggacac acttgtcaag cctcttcctc ctgtaatggc atacagtgt 240
 tcccgaata taaacttctt cttccggatc ttcacacagt tttgggatga agaaggaatt 300
 gccaatgccc agaagtcctt tggactgggg aacgaggacg gctcccgccg aatgcgctga 360

tcatgggtcaa accaagtttt ctgtaccggg ttcagaactc t 401

<210> 14829

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-D10

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cccgggcgac tacggctggg acaccgcggg gctgtcggcg gaccegagaga cgttcgcca 180

gaaccgggag ctggaggtga tccactcccg ctggggccatg ctggggcgcg tcggctgcgt 240

cttccccgag ctgctcgccc gcaacggggg ccagttcggc gaggccgtgt ggttcaaggc 300

cggctcccag atcttcagcg agggcggggt ggactacctc cggaaccgga gcctcatcca 360

tgcgcagagc atccttgcca tctgggcctg gcagggtcgt ggcccatcgg gcggccgtcg 420

aagggtacc gccctcggcc ggcgggcccc ct 452

<210> 14830

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-D11

<400> 14830

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ccttctctcg ccgcaccagc gccagccgc gccgtggtca gaaggaggtc cttcaccgtg 120

cgcgcctctc tccgcaagge caccggcacc gccgccgtgg caatggctgc cagcgccctg 180

cttgccggcg gtgccatggc ccaggagggt ctgctggggc caggcgacgg cgggctcgtc 240

ttcgagccca gccagttcac cgtcaaggcc ggcgacacca tcacattcaa gaacaacgcc 300

ggcttccgc acaacgtcgt cttcgacgaa gacgaggtgc cgagcggcgt cgacgccacc 360

aagatctcgc aagaggagta cctcaacgcg ccaggcgaga cctactccgt tcacctcaac 420

<210> 14831
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 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-022-Q1-E1-D12

 <400> 14831

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gatgactgtg ttggcaagat caagcagctc ctgtcgagcg aggagctgag ggaggccatg  180
gggagagctg ccaggaagga gatggagaag tttgactggc gagcggcgac gaggaagatc  240
cgcaacgagc agtacagtgc tgcaatctgg ttctggcgca agaagagggc acaggtgctg  300
cgccccctcc aatgggtgct gcggctgctg aggcggacaa cgccaggagc tgccgaatgc  360
gatgccgcag cgaagcaatc ctaggagagg gcggctacta tggttgatgg tcctcctttt  420
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<210> 14832
 <211> 356
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-022-Q1-E1-D2

 <400> 14832

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gtaatatatt ttttgtgatt ccacagatga gaactcttca aagtttaaacc cgtcgattta  180
gccttcattc tgctcagca ttttatcgcc ttgtttctgt agtagcaacc agtaacaaca  240
aggttgcctg tagtctgtac aagatagtag aggttttttt ttctgtgctg gttgtacgac  300
acaactgtga atgacttgcc gtagacggat actatactgt acgctcgatg cgccaa
                                                                 356
  
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<210> 14833
 <211> 385
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-022-Q1-E1-D3

<400> 14833

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cgtcgtgcac tgcaaggggt gcagggcaac cgtcaaaaag tacacctcgt tgaacaccgt 180
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gaaggccgtc ttggtggctg cgtcgggcgt gctagcccg cgcacccac gcgtgtgacg 300
cgggtgcttc gttgatcacc accaacttca tcagaacaca caggagactg tacttaatgt 360
gttcggggc aatgacacgg gagcg 385

<210> 14834

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-D4

<400> 14834

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cccggttcca cggcctccgg ggctacgccg cgcccagggtc cgcgggtggca gcgctgccgt 180
ccgtgagggg gggcaggaag aggtcgtcgt cgcaggcat ccgctgcgac tacatcgggt 240
ccgccaccaa gctgatcatg gtgacgacga cgacgctgat gccgttcgcg gggcggttcg 300
ggctggcgcc gtccgcgaat cgcaaggcga cggcgggggt gaagccggag gcgcgcgact 360
cgggcctgca cacggggtga cc 382

<210> 14835

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-D5

<400> 14835

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gccaccctgc ccagatagt ttccagggcc gcgctccacc cgtccaagat cccctgcctg 120

cgctgcctca tgcgggtgct cacagccgcc ggcatcttca gcgccgcca ccgctcgccg 180
gacgacggcg gcggcgagct cgtctatgga ctcacaccgg cgtctcagct cttggttggc 240
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ttccttggcc tcggcacatg gttacagcac gagcgctcag acccgagcct gtttgagatg 360
acgca 365

<210> 14836
<211> 162
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-D8

<400> 14836

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acaccgagga agaacagatc aatagccctc gagcacggat tcgcgactac atgccacagc 120
tatgactagt ttggggccca caggaccaca gccaggaag cc 162

<210> 14837
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-D9

<400> 14837

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tgtggagagc gcgtggggga ttgggggtgcg catgcggaag ggttccttgg tgaggaacga 360
cgttgagagg tgcataaggg aggtaatggg cggggagagg aagcatgtgt actggaggaa 420
tccgctcg 428

<210> 14838
 <211> 391
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-022-Q1-E1-E1

 <400> 14838

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 ccttcaactc cagcatctac gatctcatcc t 391

<210> 14839
 <211> 391
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-022-Q1-E1-E12

 <400> 14839

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 cagattcttg tttcaccgag gaaaagagag aagttctgga taaattgaca atgtcaactt 180
 gaattgacta attcagttcc gcctattcca cattaatggg agtacattta tgtttctgct 240
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 actttggatt tcaggacttt tagcccctgt tagtgaacga ccagaaaagc tttctagtta 360
 agaatcgggt atagaatcca aggggggggg c 391

<210> 14840
 <211> 363
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-022-Q1-E1-E2

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ccggaaacca cccctactat gtcggcgaca cctcggcgct cgtggtcattg gacagccaga 360
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<210> 14841

<211> 248

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-E3

<400> 14841

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gtagtgaac gactgtcgat tcgttgggtg aggaacatat atgtgaatgc aagctccggc 180
taccatacat gtgtaatgtg taatagatat atatacaaaa ctgccgaggc gccgacaata 240
ctttaaaa 248

<210> 14842

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-E5

<400> 14842

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gggtggcggct tgggtcgacg atggcggctc tgggactgca cggggaatga cggttgagcg 180
tgggtagaca aaaccagaac gagaaatggg aattaggggc gagtcccgac tcccgagcgg 240

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gaccgtggcg gccctactgc gtgctgggtg gggaaaccga caacgagagt gcaaatacgc 360
agtgggggttc gctggagttc cgggtcatca ccctaaatcc catgaaggct ttgttcaatt 420
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<210> 14843
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-E6

<400> 14843

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ttctccgccc gctgcccgcg cggg 384

<210> 14844
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-E7

<400> 14844

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ccattcctga agcaggggct ggtgctgcgc aaccctaca tcaccaccct gaacgtgttc 180
caggcctaca cgctgaagcg gataaggac cccaacttca aggtgacgcc ccagccgccc 240
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tcagcttcog gaatgttgcc ttttgtca 448

<210> 14845
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-E8

<400> 14845

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ccaacgagtc atgcgcaact acagaaactt agcgcgatga ctctacatc atgggcacag 180
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tttgatcacc actgcatatg gcttgggaaca tgcattggca aaaagaagca ttgtcgtttt 360
tggtggtaca tatctgaaga aacaatcttg tgtatctgga ctgctg 406

<210> 14846
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-F1

<400> 14846

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gcgagtgagt gaacaccagc cgtattgtcc cgactcctga cccctaccga tcctcgctg 120
ctgcagccat ggcgacctcc gggcgctctt ccaccgccgc caatcccacc cagctctacc 180
ggccccgcgc ttcgttgggc aagccggtga aggggcttgg cctgagcatg ggccgcgagc 240
gcgcccagcg gagcattgtg tgccaggcgg cgagcagcat ctccgccgac cgcgtccccg 300
acatggagaa gcggaagctg atgaacctcc tcctcctcgg cgccatctcg ttgcccaccg 360
tcggcatggt cgtcccctac ggcgcctctt tcgtccct 398

<210> 14847
 <211> 388
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-F10

<400> 14847

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 tctgatagct tgctccagga cgtacgtacg tacgtagatc gatccatcga tcgctagcta 120
 gctgacgacc atggcgctccc tctcctctgc cgccatcacc gcccttctct tcaaggccgc 180
 gcccgctcgc gcagtggtea gcaggaggtc cttcacctg cgtgcctctc tccgcaaggc 240
 cactgccacc gccgccgtgg ccgttgccgc cagcgctctg cttgccggcg gcggcgccat 300
 ggcccaggag gtgctgctgg ggcacgcga cggcgggctc gtcttcgagc ccagcgagtt 360
 caccgtcgag gccggcgaca ggatcacc 388

<210> 14848
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-F12

<400> 14848

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 aagggttggc tgggtggactc aaagggtttg attgttgact ctcgtaaagg ctcccttcag 120
 ccattcaaga aaccttgggc gcatgagcac gagcccttga aaaccttgta tgatgctgtt 180
 cagtccatca aacctacagt tctgatcggg acatctggag ttggaagaac attcacaaaa 240
 gaaatcattg aggccatgtc ttccttcaac gagaggccta tcatcttttc attgtcaaac 300
 ccaacctcgc attctgaatg cactgctgaa caagcatata cctggagtca gggccgttcg 360
 atcgttgcca gttgcagttc attttcccc cttggagtta cgaaaggaaa gactttttgt 420
 g 421

<210> 14849
 <211> 334
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-F3

<400> 14849

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tttccgggta tccaacaatc caatgggtcc cgaaaggatc cttggagccc aaaaagtatg 120
aaggacaacg cactgcagaa gcccttgetg aatttctcaa tactgaagga ggcacaaatg 180
taaagctggc aaccattcct tcaagtgttg tggttctcac cccagagacc tttgactcaa 240
ttgtccttga tgaaacaaaa gatgtccttg ttgagttcta tgcccatgg tgtggtcact 300
gcaagagtct tgcaccgacg tatgataagg tggc 334

<210> 14850

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-F6

<400> 14850

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tgtacaaggg gtacaggagag ctacgggagg ctctggacgc gctcttcacc aactccttct 120
ccgcgggcggc agagggcggc ggcgaccacc accagcacgc catcgcctac gaagacaagg 180
acggcgacct catgctcgcc ggagacgtgc cctgggatat gttcatctct tcgtgcaaga 240
agctcaggat aatgaagggc tctgcctctg aggccagggtg atcgtctgac catacataaa 300
cagaggctac agacacgcca cctgggaacg cggatccaag agcacacacg gatcgtactt 360
gacgaggaag gagggacgag cactgtgggt tgagctctcc agtg 404

<210> 14851

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-F9

<400> 14851

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ccaccctccg acctcgctga caggctccag gtttaccctc gacttctcgc ttccaccaca 120

tccaggcccc ggcgcggccc ggcgcgagta cccaggatc gaggcgacgg cgaggcgagg 180
cgcgcgaaact gagagcgcca aggtcaggaa cgcgcggctg cagaagaagt tcaacggcac 240
ggcgacgaag cccagactct cgggtgttctg ctccaaccgg cagctcgacg ctgtgctcgc 300
cgacgaccac aacaagaaga tcctcttcta tggcagcacg ctgcagaagt ccatctgcgg 360
cgaatcgccc tgtagcaccg tggacgctgc caggaacgtc ggggaggagc tcctca 416

<210> 14852
<211> 216
<212> DNA
<213> Zea mays
<223> Clone ID: LIB36-022-Q1-E1-G2
<400> 14852

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gaagggaggg gggggggggg gtggggggag aggggggtgg gagggggggg gggagggggg 120
ggggaggggg ggaggggggg gggggggggg ggaggggggg ggggaggggg gaggaggggg 180
gcgggggggaa gggggggggg gggggcgggg ggaggg 216

<210> 14853
<211> 435
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB36-022-Q1-E1-G5
<400> 14853

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gaaaaagtct gcatccactg gtcaagtgga gacacatgct cctgcgggtg gcccgacttc 120
atatcaacaa tacctctctt cgatgagcat gccagggcca tcaccatcag gtggaactga 180
ttctgtaggg tatggcgtcg accaaagcgc aacacatcca tctcagctgc agagttcatc 240
caccaatgtc caggcaccat atgatgacac attttcgttc ttaccaccta acatgctgac 300
agggctctgca aatgatgcca tgggtctgga actgggccag ttgcagcaag taacttctca 360
aggccagaca attcagccag canacgtggg atatgggtgat ttggccagaa accgtgacag 420

tcagtatccc gatga

435

<210> 14854

<211> 301

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-G7

<400> 14854

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cactgctccc ctcgcgagct ccctcagcgc gcttccatgt ccacgctccg tcgacctagc 120
gctcgggtctc gctacaccat cggtgaccga gctcatctac ttcaacgcca accatgcctc 180
ttgttggagc gaaggtagaa acgccaccct tcgctcgaag tctccgctgc ttagccgctg 240
ctctgagaga cagagcagat agggacaccc ttcgcgtgat cggcaccaga cgaagaccgg 300
c 301

<210> 14855

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-G9

<400> 14855

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gatcttgtat caggagaggg taaataaagt ttttgggaag cactctacat ggatgctcga 180
tcacttcatt gccgtcttca atctcattgc catggctcat ctgtcgcctt gtcacgtgga 240
cgtttcatgt cgtcggtaac aatgagatgg tgtaggcgt caagttgtct tctctaccgc 300
atcgtcggca aggaacaaac gtataactat ctgcctttca tcatgtatta aatattgttt 360
aatttaattt gtttagatca gtgcaagttt taatcttagt tatctttgta aagacaattc 420
attatgtaat aaatttgtgc cattggattc 450

<210> 14856

<211> 460

<212> DNA

<213> Zea mays
 <223> Clone ID: LIB36-022-Q1-E1-H11
 <400> 14856

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 ctgaattccc gatcgctcgc tcgctcgaaa agaaagaagc tagcttttag catggcgtct 120
 ctggcggttcg gcagcacctg agcggcggcc gtggcggcga catcggggag gacgcggccg 180
 ggcgcgcgggt ccgtgctggt cgtgccgccc gctgccagca ggggcggccc ggcgcggcc 240
 aaggaggaga agggcctcgg cgagaccatc ttcggcttca tcttcaagaa ggaccagctg 300
 gtggagacgg acccgctcct caacaatgtc tgcgcgcgcg cggccgcccgc ctcgcgcgcc 360
 aagacgaccg ccggcaagaa cgctgccggc ggcgacgaca gcggcagcgg ccgggggttc 420
 aacctccggc ggctcgggcg gctcttcgcc aagaaaagca 460

<210> 14857
 <211> 467
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-022-Q1-E1-H12

<400> 14857
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 tcttgaggaa ggtgtcctca acccagaatc aactgttggt gcgatcttcc tctctcctat 120
 gcattatgct gggccaactg aggttcaatg gcatgctaag gctcgtatta atgctggtgc 180
 aaatttctat atcgttggaa gggatcctgc tggatgagc caccacacag agaaaagggg 240
 cctctatgat gctgatcacg gaaagaaggt tttgagcatg gctcctggcc ttgagaggct 300
 caacatcctt cctttcaagg tggctgcgta tgacacaaag cagaagaaaa tgggtttcct 360
 ttgattcatc aaggaaagat gacttcctct tcattctctg cacagagatg cccactcttg 420
 ccaagagacg agagagtctc ccaaattggtt ttagttcccg ggtggct 467

<210> 14858
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-H3

<400> 14858

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agccaggcag ccatggcgcc caccgtgatg atggcctcgt cggccaccgc cgtcgctccg 120
ttccaggggc tcaagtccac cgccagcctc cccgtcgccc gccgctcctc cagaagcctc 180
ggcaacgtca gcaacggcgg aaggatccgg tgcattgcagg tgtggccggc ctacggcaac 240
aagaagttcg agacgctgtc gtacctgccc cgcgtgtcga cggacgacct gctgaagcag 300
gtggactacc tgctgcgcaa cggctggata cctgcctcga agttcagcaa ggtcggcttc 360
gtgtaccgag agaactccac ctccccgtgc tactacgacg ggcgctact 409

<210> 14859

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-H5

<400> 14859

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agaagaacga tgaggggtgcg agtgaatcaa aaccctggc cgaaccgcac ggtgctgggtg 120
ctgccccggc agaagataag aaagtggat gatgcagcag gcgcttaaaa tggtagccac 180
ggctctgtgt ggtagctaa gaaacaataa ttgttggga tggtagatga cttggttgat 240
gggttgaact tgtagtaca ctccggatcc ttaccagttg cattactaat cactgctgct 300
ggtctggtct gtctgaatag aaggagttg aacttgcagt cgcaaatgta atagcgagag 360
tgaatcttgt tgtcaaaggc ttctgtatag aatataatgc ctgaataatg aactc 415

<210> 14860

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-H6

<400> 14860

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gaggtggagg ccagcgcgag ggtagcgccc tgaagagggc ggcgatcgtc gcaggggggc 120
 tcgcgctggc ctgggtcacc gtggagaccg ctttcaggcc cttaatgggc cgcctccgcg 180
 ctgccatctc cagctccacc gacaccgccc gcgaccccgga ccaggaggag cctcccgcgc 240
 ctgcctctgc ggcggaggcg gagaaggcgt ccgcaccaga ggagcctgcc gcggtggagg 300
 agaaagtcga ggagaagggt gtcgagttgg aggagaagggt ggaggaggcc gccgccgaca 360
 atgccgagtg aacgcgacgg ccacatggcg ccctgtctgg ctgctcctct gaacgggttc 420
 ttgaggttag ccgga 436

<210> 14861

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-H9

<400> 14861

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 ctgggcaccc gcctggcgga cccggcgcca cagaacgggc gcatcggtgg ccggttcggg 120
 ttcgggttgg gcggcaaggc gaagcctgct ccgaagaagg tggcgaagac atcgacctcc 180
 tctgaccggc cgctgtggtt cccggcgccc gtggcgccc actacctgga cggctcgttg 240
 gtcggcgact acgggttcga cccgttcggt ctcggaagc ccgtggagta cctgcagttc 300
 gagttggact cgctggacca gaacctggcc aagaatgagg ccggcgccat catcggcacc 360
 cggttcgagt cctccgaagt caagtcgacc ccgttcgagc cctacagcga ggtgttcggc 420
 ctccagcggg tccg 434

<210> 14862

<211> 475

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-001-Q1-E1-A10

<400> 14862

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 cctccacact caacagtcac ggtcgtcatg ggcaaggagc agcaacaaca cgaggaggag 120

gaggtgcaag ggaaggtcgt ccaagaagaa gtgcaagtcg ttcaagagac ggtggtgccg 180
 gtgccgtcgg aggaggacaa ggaggccgag gcggcgctgg tgcacaagat ctccagcctg 240
 gccgcgcgcca tcgcgaagct gccatccctg agcccgtcgc cggaggtgaa cgcgctcttc 300
 accgagctcg tgacggcgtg catcccgcg cagcagcgtgg acgtggagcg gctgggccccg 360
 gagctgcagg agatgcgcgg cgggctgatt cgcctctgcg ccgacgcgga ggcgctgctg 420
 gaggcgcact actccgacct gctggcctcc ttcgacaacc cgctggagca cctgt 475

<210> 14863

<211> 470

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-001-Q1-E1-A12

<400> 14863

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 gaattcagaa aacaatatga aagttacgta ccgatggaat ataaggtgta cttgaagaaa 120
 atgaaaagat ctggggaatg gggagatcat ctgaccttac aagcagctgc agatcggttt 180
 ggtgccaaaaa tttgtttgct gacatcattt aaagacacct gtttaattga gatagtcctt 240
 agggatctaa ctcccacaaa agagctttgg ctaagcttct ggtgtgaagt aactacaat 300
 tccttgatg gaatcgacga tctcctgacc cgcaagacga agaagaagca ctggctgttc 360
 taagaagggt ctgaaggatc caaattcttt cagcagctcc tgctctgtcc agccagcgca 420
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<210> 14864

<211> 211

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-A8

<400> 14864

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 tggtttattt atgctggatt ctgaaatcta atctgccgga ttctagatta aaggattcga 120

ttgtcagggg tttctcgaac ttggatttga ttagtgagct ggaatgacta aattatagtt 180
 gatgcagtac ataccattat ttttttttgt t 211

<210> 14865

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-B10

<400> 14865

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 gcggcagcca tgtcatccag gtcacgggtca tctccaaagc gcacaggata catgaagtgt 120
 ccatggatcc gtccttcggc aagggctccc gggatcacc cgcgtctcg ttgacgcacc 180
 gcacccctta cgcgtcgttc ggcgacaagc acagcaacgg ttgccagctg acccactggg 240
 tgaacaagct gtgcacaacg gcgcatggct tcatacagca tgtgaccttg cggccgaatc 300
 tgtcacgtac tgtgaacggg aagctgagcc ttagcgctct gatcctgcag gccggcagtg 360
 tggatctcgt gttccgccat gccttctccg ccgccgacaa aggcgatcgg ctgctcaatg 420
 cgctgcagtg ctacatct 438

<210> 14866

<211> 411

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-001-Q1-E1-B11

<400> 14866

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 aaccagaaca tcaccgacga caccgcctc cgggccgcca tccccaccat ccagtacatc 120
 ctgagcaagg gcgccaaggt catcctctca agccacttgg gtcgccctaa gggttttaca 180
 cccaagttta gcttagctcc cttgttagga cggttgtctg agcttcttgg cattcaggtg 240
 caaaaagccg acgatgttat tggccctgaa gttgagaggc tgggtggcggc cttgcccaac 300
 ggtgggggttc tgctgcttga gaacgtaaga ttctacaagg aanaggagaa gaatgacca 360
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<210> 14867
 <211> 470
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB36-001-Q1-E1-B2
 <400> 14867

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 gcagccgtcg tcgccaccgc tgcagcgcg aggcgacccc catcgccgcc aagatgcaga 120
 tcttcgtgaa gaccctgacg gggaaaacca tcacgttga ggtggagtcc tcggacacca 180
 tcgacaacgt gaaggccaag atacaggaca aggagggcat ccgcccggac cagcagcggc 240
 tcatcttcgc cggcaagcag ctcgaggacg gccgcaccct cgccgactac aacatccaga 300
 aggagtccac cctccacctg gtgctccgcc tccgaggtgg cgccaagaag cgcaagaaga 360
 agacgtacac caagcccaag aagatcaagc acaagcaca gaaggtgaag ctgcgagtgc 420
 tgcagttcta caaggtggac gacgccaccg gcaaggtgac ncgcctccgc 470

<210> 14868
 <211> 382
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB36-001-Q1-E1-B3
 <400> 14868

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 tgtctctccc agaacgcaca gcacagtcgc agaacaggaa ggcagagagc agcgccgcga 120
 tgagaggagg aggagcgggg ccactgcgg cgttcatgtc cgacgagccg cctccagccg 180
 acgcggaaga ggtggaggag aactccggcg ccgaggagga ggacgaggag acggtggtgg 240
 agcaggacga cgacgagctg gagctggggc tctgcctcgg ctccaagcaa cagcagcagc 300
 agcatccgcc gccgtgccg atcctcacgg cccgggacct gcagccgagg tccctgtcac 360
 cggattctc cgtgtcctct tc 382

<210> 14869
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-B7

<400> 14869

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gagcatcaga aggagctgcg atctgatcga catggctgcc gccaccatgg ctatcacctc 120
ccgcgcgctc atcggcaagc cggcggctgg cagcagggac gtcttcggcg agggccgcat 180
caccatgcgc aagaccgccc ccaagcccaa gccggcggcg tccggcagcc cctggtacgg 240
tgccgaccgc gtctgtacc tgggcccgtc gtccggctcg ccccgagct acctgaccgg 300
cgagttcccc ggcgactacg ggtgggacac cgcggggctg tctgcggacc cggagacctt 360
cgccaagaac cgcgagctgg aggtgattca ctgccgtgg gccatgctcg gcgccctccg 420
gtgcgtgttc ccggggctgc 440

<210> 14870
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-B8

<400> 14870

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cccgcgccct cctctgtcgc cccgcggga ccgcgggca ccacctcgcc gtttcctcat 120
cctccccgc ctctcgatc cgcttcccc gcggtgccga cggaggcgcc agcaaagcgg 180
ccgtctctct ccgcgcccc acgcctcgag cggtggaac agcaacatct ggtagcattg 240
ctccatcagt ttcatcgact gaaaacgcct tgaaacatct gaaccatgtg agagctgaac 300
ggaatgaagt tttgtgcttg agaattggag tcatacaggg tggatgctca cgcgtgtctt 360
acaccatggc atttgagaat cgagagaatg caagccctga tgattctgtt gtagagtatg 420
atggttttgc aatactct 438

<210> 14871
<211> 260

<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-C1

<400> 14871

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taaagcaaga gataagggtta gcattttaatt aattagctgg tgagttgtgt aggttaattg 120
tatttcatgt gtatagtttg ttgttcgtga tgtttgtgtt agattcgaga agcgtaatta 180
ttgcgcttag tcgtacgtct gtaactagtg tttccgtata aaattataca acgcctcgcc 240
gataggtgtt taaattaataa 260

<210> 14872
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-C10

<400> 14872

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tggtgcaagt agttgtcggc acatcacatg aagagtatat tattgattgg gagctgaggt 120
gtccagtcag gttattgtct tggttccagc ctgtaccttt ttgttgccat tttgtagaca 180
gggaaagaaa aaaaaatctt ccgtctcaat tacggtgaag ttgtgacagc gtttgttgcc 240
tagcgatata aggggtgtgac cattcgtttg aaacagtgtc ccctctcttt ttggactaca 300
aaatTTTggc acaaagcagg tgtacaaggt taaacctttt aaaactttca tctatttgtt 360
tcgggatagt ttggtgtgtg gggggtttgt cttgatcctt tgtgctactg caacatttgg 420
tcctcgacat tgtaaattag ttaatcttaa acatagaaac 461

<210> 14873
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-C12

<400> 14873

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tcggggttcgt gaggttctcc ggggttcggt ttcgtgggtg ggcggatcga gatggcggcg 120
tcggatgttg agtaccgctg ctctcgcgc ggcctcgcct gggccacgga cgaccactcc 180
ctccacaacg ccttcagcac ctacggcgag gtccctcgagt ccaagatcat cctcgatcgg 240
gagacgcaga ggtcccgcgg ctctcggttc gtcaccttct ccacggagga ggcgatgċgg 300
aacgccatcg agggcatgaa cggcaaggag ctggacggcc gcaacatcac cgtcaacgag 360
gccagttctc ggcgcggccg tggaggcggc ggcgcgggct acggtggtgg 410

<210> 14874

<211> 417

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-001-Q1-E1-C2

<400> 14874

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ctgccaggca tgcttgcccg ctgccgcagg tgaggcgacc cgcagccgtc cgagacgcac 180
cccggcgcaa ggcgcgatcc gccatggatc cggcgtccga ggagctcgag cgccgcagcc 240
gctatctcaa ctcgctcatc cgccgtacta agtcagcgc cccccggct cccctcctc 300
agccggagcc ggagcacgag gtagcgccac cgaatccgga gccggagccg gagaccgcgg 360
ttgggaagcg cgaggaggcc aaggcggatc cagtggctgt tgaggaggag aagcggg 417

<210> 14875

<211> 409

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-001-Q1-E1-C9

<400> 14875

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gaagctgccc ttccagaggc tcgttaggga aattgcacag gacttcaaga ctgatttgcc 120
tttccagagc catgcggtgc ttgctctcca ggaggctgct gaggcatacc ttgttgccct 180

gtttgaggac accaacctgt ggcgatcca tgctaagcgt gtgaccatca tgccaagga 240
cattcagctg gcaaggagga tccgcggcga gagggcctaa tcgccacctc aaacatcgtg 300
acaaaaaaaaat gaagtcctgg gggtattggtt aatctgggtgc cattgtaagg acatatgagt 360
anggtttgtt ttgtggatcg caagtgtctc ctctgctact gttgctgct 409

<210> 14876
<211> 395
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB36-001-Q1-E1-D1

<400> 14876

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ggcgcggaag atggctgacc cagagttgga agctatcagg cagagacgga tgcgagaact 120
acaacacggt gcggaacatc agcaaaatgc gggccaacaa aaggctcagg aagacgcgaa 180
acaggaagct gaggaacgcc ggcagatgat gcttgctcag atattatctt ctgaagcaag 240
agaaaggctt tcccgcatac ctttgggtcaa acctgacaaa gcaagagggg tggaggatgt 300
tttgctgaga gctgctcaaa ctgggtggaat atctgagaag gtgtctgaag aaagactcat 360
ctcnccttcta gagcanatta acagccacac aagca 395

<210> 14877
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-D10

<400> 14877

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cgaggccgcg gcgaggtccg gcgaggccgc ccacggctgc agctgcggtg gcaactgcaa 120
gtgcgacccc tgcaactgct gatcacatcg atcgacgacc atggatatga ttattatcta 180
tctagcttgt ggtgggtggtt gaacaataat aagcgaggcc gagctggctg ccatacatag 240
gtattgtgtg gtgtgtgtga gagagagaga aacagagttc ttcagtttgc tatctctctc 300

tgcattgtttg gcgtcagttt ttgtgctcat gtacgtacgt gtgtctacct gcatgttggt 360
 tgatccgatt gcatctgctg taaccatata ttaattgggc cagcatgata tgatttgata 420
 ctatatatat act 433

<210> 14878
 <211> 382
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-D5

<400> 14878

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 gccgccatcc gcaagaaggc ggccgaggtc gtcgcccgcg tcgacgcgct ccaactgcggc 120
 ggcgggcgcg gcggcgcgcg cacctctccg cagccgctgt cgttccatcg ccgccgcccc 180
 aagaaccccg acctcaaccg ggagccaacc ccggaaacct cagacgacga gtaaagcgcg 240
 ctgattaggg tagctagcta gctaggcagg caggcaggca gcagtagcaa gtaaagcaag 300
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 gttccgtgga atgccggatg gg 382

<210> 14879
 <211> 382
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-D8

<400> 14879

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 gactagtcta aagctgcggc ggtggagatg gggagcgacc tgaagacggc gaataagaac 120
 accccgggtg cgctgatgcc catcgcgaa cctctcgctg gaaagaagct ctgcaagcgg 180
 accctcaagc tcgtgcgacg agcctctgag gccatgtgcc tcaagcgcg agtcaatgag 240
 gtagtcaaga gcattcggcg cgggaacaaa ggggtgtgtg tgattgctgc gaatatctct 300
 cctattgatg tgattacaca cgttccagta ctatgtgagg aatctaattg tccttacata 360
 tatgtgtcat cactggagga tc 382

<210> 14880
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-E12

<400> 14880

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gactcggagc tattgaggag cattcagagc ttggccaagg tttccatgtt gcagagaagg 120
atatgggtat caggggattt ggaagcttgt ttggtgagca acagtctgga gatgttgcaa 180
atgttggcat cgatttattc tttgatatgc tttttgatag cttgtcaaag gttgaccagt 240
tttgccatgt ccagtagcca tacaaagatg ttcagctgga tataaacatt tctccacgtc 300
tctcttctga atacataagt tatctggaaa atcctgttga gttgctcaat gaagcggcaa 360
aagctgcaga gaaagatcta tggaccttga tacagtttac agaagacctc cgtcgacgat 420
a 421

<210> 14881
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-E3

<400> 14881

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agaggctggc caccagtggc gccaaactttg cgcgcgcccta caccgtggag ttcggcagct 120
gccagttccc ctacaacttc actgggtgcc aggacctcgc caagcagaag aaagtcccct 180
tcatacagca cgacctcgag attgagtgcg aggggaagga gaagttcaag tgcggctcca 240
acgttttctg gaagtgggtga agcagctagc agcagcgtct gatgggaatg gaggagatca 300
tcacctgtct tgtcgaccct agatatgtcc aaactgcagg gaaattaaat cttcatgtgt 360
aattgtgctc attctgtttc aatcatctca acatccgac atgaacctct tgcattatta 420
act 423

<210> 14882

<211> 232
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-001-Q1-E1-E6
 <400> 14882
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 ttttggaag gaagcttcta tggctcatat atagacaagg actaaacggt aagacgagtc 120
 ttctaagtct aattagtcct tacctagttt agtgattaac taagtttgta ggaactatgt 180
 gtggcgcaat atgtagccta cgcaatcaaa gtaaaaaagt tatagctcta aa 232

<210> 14883
 <211> 454
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-001-Q1-E1-E9
 <400> 14883
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 acataaaaga aatgcttgac tatggtttgg aatcatctga ctagatgtga ccacaggcac 120
 cagttaagtc agctggcatc gttatcacct tcacagatta actatttgcc ccttgcgaca 180
 aatgagcaga aacatgggtt gtgtatggca agcagggtgt taggtacagt tttctcagtt 240
 tttatggcac atcatcagag cagctaaagt caccagatt gacaaagaga tggtttggtg 300
 gtcattgtatt tatgagaaaa ttatgcacgg tttcatagat gtctgtctct gagacgtttg 360
 ttgtaatgtt tcatattttg tcaatagtca tccttgagct taagccaaca atttgttttc 420
 acctgtcatt aaattaatta cttttcatat ctac 454

<210> 14884
 <211> 292
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-001-Q1-E1-F11
 <400> 14884
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ttgtgtagtt ggcattgatt ctctgtgttt ttaatccgat cacctgcacc catttgat 120
gttcgacttg tgagaaatgg tctataagtt ccttaaata atgtcgtggc aaaatttgat 180
atgttttagg cccctttggc agggcaactt ttgctctaac tttgttattg tttacataag 240
ccgtactaaa cagtattttt aaaataactt ttcattaatt atattttttg tt 292

<210> 14885

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-F12

<400> 14885

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accaatgtct caagcccagc cccctcgttc ccaagcccag tggaaacacg ttaaatttca 120
ggataaccaa gctaattgcca tgaaggaacc aggaaccggg gggatatggc atgggacgaa 180
aaatgacaag aataaggatg tggatacaat agcttcggac ttcataaagc tgaagcacia 240
ggcttgggca ctccagaaga gcacaaccat gtaccaacct tctatctaaa ggtgtcaata 300
gttcaagaag ttgatactat atacttatgc ttgtctctgt atagtctata agtcctaatt 360
caaataacag gtgctgcttg cagccttgga tatttgcgga aa 402

<210> 14886

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-F3

<400> 14886

ttttatattt ttttgaatat gaacgggtcat tttttttcag gcataaatat aaatccgttc 60
tcttgccatg gtatttagca cgcacaagca acgcttgaat aagtcttgca aattcaacac 120
aggttctacg aaagtggcct tggctaagga acgactgcaa tgtcgagaaa cgacactaag 180
ttctttcagc gtttcccacc accgcgcgcc aacttggggc ctttgggaacc cttctggacc 240
gcaccctttg tctgcgtctt ctgggacttg ctcacctcg ctttcttcgc tttcttctca 300
tccttgggtct tcttgatgcg ctcttgatc tcacgaagag cagcttctct agcagcatcg 360

cggacctctg gcttctcagc tctcttct

388

<210> 14887

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-001-Q1-E1-F5

<400> 14887

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caccagcaac ccccaacagc gccactgtcc agtgcgcgcg tcaagcttgc ttagctagcc 120
gccatggcct cctcgcgcgc cgtctccgtg aagcccgtgg ccatcaaggg tctcgccggc 180
agctecatct, cgggaaggaa gctcgccgtc gccaggccgt cggcccgtc catccgcagg 240
ccccgcgcag cgcgcgtggt ggccaagtac ggcgacaaga gcgtctactt tgacctcgac 300
gacatcggca acaccaccgg acagtgggac ctctacggct ctgacgcgcc ctgcgcctac 360
aaccgcgtac agagcaagtt cttcgagacg ttcgcggctc cgttcaccan gagaggtctg 420
ctgctcaag 429

<210> 14888

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-G11

<400> 14888

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gtatacgatt gcgatgatgg gatatgggcc agaagacaaa aatgctgtat tggagttgac 120
ctacaactat ggggtgaagg aatatgataa gggaaatgct tatgcacaga ttgctattag 180
tactgatgat gtctacaaaa ctgcggaagc aattagagta aatggtggac aaattactcg 240
tgaacctggc ccattacctg gcatcaccac caagataact gcatgcacag atccagatgg 300
ctggaaaaca gtgtttgtcg ataacataga ttttctgaag gagttggaag aatgagcttt 360
gctagagatc tcaacttggc acatcaagct ccatacgggt gcaccccgct agttccatgc 420
atgacctgca aaatctttgt aaagccacag cctcaaactg 460

<210> 14889
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-G2

<400> 14889

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accaccccga ccggaccctc cacaacaatg gccaccgtcc tgggcagccc ccgcgcgccg 120
gcctttcttct tttcgtcgtc ctccctccgc gccgcgccgg cgcctaccgc cgtggcgctg 180
cctgcggcca aggtgggcat catgggccgt atcgccagca gcaggcgag gctgcgcgcg 240
caggccacct acaacgtgaa gctgatcacg ccggaggggg aggtggagct gcaggtgccc 300
gacgacgtgt acatcctgga ccaggccgag gaggacggca tcgacctgcc ctactcctgc 360
cgcgcggggt cctgctcctc ctgcgcgggc aaggctcgtt ccggctccgt ggaccagtcc 420
gaccagagct acctcgacga cggg 444

<210> 14890
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-G5

<400> 14890

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aaggatcgtg atggccatgg ccacgcaagc ctccgcggcc acgcgccacc tgggtggccg 120
cgccgcttcc gcttgggcgc cgtcggcgaa gccgcggcag ctaagctcac agctcgcgct 180
gccgcgctcg tcttcccgcg cgcgggcccc gctccgcgcg accgcggggg aggcggtgac 240
cgaggaggcg cccaaggggt tcgtggcccc gcagctggac ccagcacgc cgtccccgat 300
cttcggcggc agcacgggcg ggctgctccg caaggcgag gtggaggagt tctacgtcat 360
cacgtgggtg tcccccaagg agcaggtggt cgagatgccc accggcgggc ccgccattat 420
gcgggagggg ccaaacctcc t 441

<210> 14891
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-G6

<400> 14891

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agaggccacg aatgccggcg gcgggggtat ccgcgcgcgg atggagcact acctttacag 120
tggcgagaag aagcacgtcg tcgccggcat cgccatcttc gctgccgtct tcggcgctccc 180
atggtacttc atgacgcgag gggcaaagca tcaatctcac caagattaca tggaaaaggc 240
taacaaggcg agatcagaga ggctttcttc tggacagtca tctgcactaa aagaatgaat 300
gttgatttgc ctattctggt ccctgacctt cagagcttgt catagatcat acactgtatt 360
gatttgact caacggattt gatctgttgt 390

<210> 14892
<211> 438
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB36-001-Q1-E1-H1

<400> 14892

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cacgcgccac ctgctggccg ccgcctgggc gccggtggcg aagccgcggc agctgagctc 180
gcagctcgcg ctgccgtcgt cgtcctcccg cgggcccggc ccgctccgcg cgtccaccga 240
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cccgatcttc ggcggcagca cgggcgggct gctccgcaag gcgcaggtgg angagttcta 360
cgatcatcac tggacgtccc ccaaggagca cgtgttcgag atgtcnaccg gcggcgccgc 420
catcatgccg gaagggcc 438

<210> 14893
<211> 459
<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-H11

<400> 14893

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cggaagcggg gacgtgagca gtcgaccaac cccgtcgatc cggctgcggc ccggcgtgct 120

agatcgctac cgatcatggt ggtggaggag atcgccgagg gggatgaagaa cctcaccgtt 180

accgggagacg cggcggcttc aggcggagag gggcagagga ggggcggcgg ccggcagcagc 240

aaccgcatcc aggtgtccaa caccaagaaa cccatcttct tctacgtcaa cctcgccaag 300

aggtatatgc aacagcacga agatgtagag ctatccgctc ttggaatggc catagcaaca 360

gttgtgaccg tggcagaaat tctgaagaac aatggatttg ctgttgaaaa gaaaattagg 420

acctctactg ttgaaataaa cgacgaatca agagggcgt 459

<210> 14894

<211> 205

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-A12

<400> 14894

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gcaactgagt ctggcgacag agagtctata gcagcaaag aagactgatg ggatcagttc 120

cagactagat gtacgacacg aggccttcagc aggcaggctt ctctatata actctagcac 180

gattccatgg acatggggat actgc 205

<210> 14895

<211> 216

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-A3

<400> 14895

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taatgaatgg attagctaga tagattagtc acaatgatgt tgtgattata ttaagtgttg 120

ttgaagcgta tcgtctcatg cagtaatgtg attgtgaagt ggttgctcgc tgtgaagctt 180
 agtggttaaga tttacgtttt acaatgagta ttttga 216

<210> 14896
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-B8

<400> 14896

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 tccgggtcga ggagctccgc gtcgctgcc atgcgccga atgccacctc cgacgacttc 180
 atgtccgccg tctccttcag gaccacgcg gtcggcacga gcggcgggcc gcggcggggc 240
 ccgacggagg cgaagctgaa ggtggccatc aatgggttcg gccgcacgcg gcgcaacttc 300
 ctgcggtgct ggcacggggc cggcgacgcc tcgccctcg acgtcatcgc catcaacgac 360
 accggaagcg tcaagcaagc gtctcacctg ctcaagtacg actcgacgct cggcatcttc 420
 gatgccgacg tc 432

<210> 14897
 <211> 394
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-C5

<400> 14897

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 cctgctggcg ccgtcgtccc ggtccggccg cctggcgccg ttctgcgcca acgccaccac 180
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 cgacggctcc tctccggggg acttcggcat ccatcggccg ggccctcgaa gcgtgccgga 300
 gaacttcgat cgggttcaatg agtcagcggg gtaccactgc cgctggggccc atgtcatgcc 360
 gtccccggga tcctggagcc cggatgcgcc tggg 394

<210> 14898
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-C6

<400> 14898

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agatcatcct ggtacctgga atctcgagtc ctaggtcaag gacagggtacc gtaggatgag 180
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tttggggttg tggattgttg tctccttatg atgtgattat ttatttatTT tgtacagaac 300
tcctattata tagtaaagat gtgacattcg tttcta 336

<210> 14899
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-C8

<400> 14899

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ggcatcatgg atgtctgcga catgccgcac gtgtccgtcg acttcagggtg ctccgacgtg 180
tcctgcatca tcgacgcac actcagcatg gtcattggcg acgacatggt caaagtcgtc 240
gcctgttacg acaacgactg gtggtacagc caacacgtgg ttgatctggc gcatctgatg 300
gcggcacaag tggcccgga cgacagcaga ctgcatcagc gaacctcctg gaagactt 358

<210> 14900
<211> 216
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-C9

<400> 14900

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gtcatttgac gtatcgtgtc tgggacatgg ctgtcgtggg tcgacgtacg tcgcctggga 180
tcacgtgcmc cttccccgag atggcgtggg atcgaa 216

<210> 14901

<211> 468

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-D11

<400> 14901

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gagtggcgca agctcatgga cgagatggcg gtcgtggcca cggaggagta ccgctccgtc 120
gtcgtcaagg agccgcgctt cgtcagtagc ttcagatcgg ctacaccgga gaccgagtac 180
gggaggatga acatcggcag ccggccagcc aagaggaggc ccggcggcgg catcacgacc 240
ctgcgcgcca tcccctggat cttctcgtgg actcagacca ggttcacact tcccgtgtgg 300
ctgggagttg gcgccgcctt taagttagcc atcgacaagg acgtcaggaa cttccaggctc 360
ctcaaagaga tgtacaacga gtggccattc ttcagggtca ccctggacct gctggagatg 420
gttttcgcca agggagaccc cggcattgcc ggcttgtatg acgagctg 468

<210> 14902

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-D2

<400> 14902

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tttaggcata tctgaaaaac tatttgatgg tttggttcct gatctggtac ttagtggaat 120
caacattgga aataattgtg ggtaccatgt catttattct ggaacagttg ctgggtgctag 180
ggaggcattc ttatatggga ttccctgcaat agctatgtca tatgattggg ttgcgggctcg 240
gagcagtgtt aatgacctca aggtgtctgc agaggctctgc atgcctctga taaatgctat 300

cgtgactgag atcaagaatg ggacttacc tcaaggatca ttcttgaatg tagatgtacc 360
 tacagatggt gcgcagcaca agggctacaa aattacaaaa caaggaacat a 411

<210> 14903
 <211> 383
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-E3

<400> 14903

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 tttgcgtgca actgttgacac tgtaagttag aaacttgaag gggtttcacc aagaagctcg 120
 gagaattact ttggatttgt gtaaatgtta agggaaacgaa catctgctca tgctcctcaa 180
 acggtaaaaa agagtccctc aatggcaaat aggagtcgtt aagttgtcaa tgtcatttac 240
 catatgtttt acctatttgt actgtattat aagtcaagct attcaacgct gggtgctgct 300
 agaaatcttt agaacaaaga tgataatgat ctgatctgat gttataatat tcaaatctca 360
 aataaagaaa atatcgtttc tca 383

<210> 14904
 <211> 471
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-E9

<400> 14904

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 gagacacagc agcttctcct ccagatcgct gggcacaagg atattcttga aggcgatcca 120
 ttcctgaagc aggggctggt gctgcgcaac ccctacatca ccaccctgaa cgtgttccag 180
 gcctacacgc tgaagcggat aagggacccc aacttcaagg tgacgcccc gccgcccgtg 240
 tccaaggagt tcgccgacga gaacaagccc gccggactgg tcaagctgaa cccggcgagc 300
 gagtaccgc ccggcctgga agacacgctc atcctcacca tgaaggcat cgccgccggc 360
 atgcagaaca ctggctaggc ggcttctctt cactcacctg cagagtgcac cgcaataatc 420
 agcttccgga tgggtggcgtt ttgtcagttt tggatgggaa tgccgaactg g 471

<210> 14905
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-F6

<400> 14905

ccgggtcgac cacgcgtccg accaacgtca ccgtgacggc cgacaacccc atcctcatca 60
aggcgatggc gacggggctg cagctggtga ggcctactg gttcctgcgg atcctccgga 120
tggtcaggta caagctcgcc ggcaagaaga agccgacgcc ggccaagctc gccgccgccg 180
ccgccaactg acgtaataag cgccggcgac gaccttcacg agctacgcac atttatgata 240
ccgggagttg gattcgacag aggccgtgct gtacatataa taaaaatata cacacacgcc 300
cgcctctgaa gcaatgcaat tgcaatgcaa ttgcaaattc ctcgactgcc aaaggaagtg 360
tccggtcatc ccctcaatca aaccaaagtt gtccgt 396

<210> 14906
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-F8

<400> 14906

tccgggtcga ccacgcgtcc ggtcatgcag cagcggcaag tgcaactgcg gctccagctg 60
ctcctgcggc agctcatgca actgcatgtc ccctgacgtg gagaccgccg ccgccagcag 120
catcaagacc atggtcgtcg ctgcgccgac caccaaggcc agcgcggcg gcttcgaggc 180
ggccaccgag ggcggcggtc gcgactgcaa cacctgcaac tgccggcacca gctgcggctg 240
ctcctgctgc agctgcaact gagccggacc gcccgccccg gtgatggcac acgagagtct 300
ataggacgac gtacactagg cgtataaata taatagcagc gtctaaataa gatcctgtca 360
actgcatccg ccattatcga tccatggtcg atcctggggg tcatgttcat ctgtgtagcc 420
tgctctgcgt catgtccgtc tcgtcc 446

<210> 14907
<211> 167
<212> DNA

<213> Zea mays
 <223> Clone ID: LIB36-002-Q1-E1-F9
 <400> 14907
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 aactaacggc aatgatgcc aacaaatggg agaccacgga tgcacagct gaatcaaggt 120
 agggataatg ccacatttca tgcaccacgg gatccagtcg actccgg 167

<210> 14908
 <211> 152
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-002-Q1-E1-G9
 <400> 14908
 cgggtacgac ccacgcgtcc agacaaacat ccgaacaccg acgccatagc ttgtgcgcgc 60
 gcattggaac tcgtttccac cactccgttc tacatgactg tcgctgcgga gctctctagg 120
 cattggcagc atttgggttc aaccacgggg tt 152

<210> 14909
 <211> 209
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-002-Q1-E1-H8
 <400> 14909
 gacccatcgc gtccgaacca ctccgcgcta tctgaggacg gtacagcggc acagaggtgc 60
 gacgtacgac gacgacgacg caggcgccac acatggcatc ccagctctcc gccgccgtgc 120
 cccggttcca cggggtccgg ggctaggccg cggccaggtc cgcgggtggca gctctgccgt 180
 ccgtcatggt gggcaggaat aggtcgtcc 209

<210> 14910
 <211> 401
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-003-Q1-E1-A11

<400> 14910

tatcgggtgga cgactcacgc gtccgacgag ctcaaggtga aggagctcaa gaacggccgc 60
ctcgccatgt tttccatggt cggcttcttc gtccaggcca tcgtcaccgg caagggcccg 120
ctcgagaacc tcgctgacca catcgctgac ccagtcaaca acaacgcatg ggccctacgcc 180
accaacttcg tccccggcaa ctaagctcaa cggctatgct atgcaacttc attgtctttc 240
ggatcggaga ggggtgtacgt acgtggattg attgatgctg cgagatgcat gtgtgtcttt 300
tgtttcacgt tgcattgcat aggcaagtcg agatgatgag ttggcgttgt acactaagat 360
gaaccatggt tgtgcaatag tgggtggtttt tgtttcctgc t 401

<210> 14911

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-B10

<400> 14911

aagcaaacgt catcacgtgt gtgttgctcg atcactactc catcgatcta cttattatcg 60
tctgcaaata acgactaagt gcatgcttct gcagcgtgta acgatcgaga tatgcatgca 120
gaactcgata tatatacggc ccctagcgcc gtacacgtgc gtgcgtgtaa gtaaataaga 180
gcaaacgtcg tcacgtgtgt gttgctcgat cactactcca tcgatctact tattatcgtc 240
tgcaaataac gactaagtgc atgcttctgc agcgtgtaac gatccaaaat aaaaaaaaaa 300
aagaagaaaa aaaaaagaaa tcaaaacaaa aaaaaaagga aag 343

<210> 14912

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-B3

<400> 14912

gtcgacccga cccgtccgac cacgcgatcc gccacgcgt ccgcccacgc gtccgcaaaa 60
cgtgtactgt tgaaggcaaa gtctgcatgc tccatgtccc ttggccttgg ggaggacaca 120
ataagegctt cgtccgtgct tgccatgcct atggtctcat caagaacaac cggcttcaga 180

ggaattgaag atgaccgttc aaagtacgtt cctttaagaa ccacagattg gagtaatctt 240
tagcggacgg tgatatatag atacacagca aaggctctta cttttgatgt tgcatacgcg 300
gtggcagtaa agtattttgt tgctccagag gctattgttt gttgtaatca tagttagctg 360
taacacgagt gtatagttca acgtttctcc cttcaaaaca ctgtccatag ccagctgcat 420
agtacatttg taagtttttag aatac 445

<210> 14913

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-B4

<400> 14913

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ggagtcaggg ccgttcaatc ttgcccagtg gcagtcatt tgccccctg gagtacgaag 120
gaaagacttt tgtgcctggg cagtcgaaca atgcctacat ttccctgga ctgggcctcg 180
gtcttgatgat ctctggagcc gtccgtgtcc acgaggacat gcttctcgcc gcctcgaaag 240
cgctagctga tcaggccaca caggacaact tcgagaaggg ctccatcttc ccacccttca 300
ccagcatcag aaagatctct gcgcacatcg ctgcagccgt ggctgcaaaa gcctacgagc 360
tcgggtctggc gaccctctg cctccccca gcgacctggt gaaatatgca gagaactgca 420
tgtacactcc cg 432

<210> 14914

<211> 302

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-003-Q1-E1-C12

<400> 14914

ccggtgctaa attcncggga cgaccacgg gtccgatcaa gctgagacgt gactgggaag 60
ctgaaaagaa aggtgacaag aggaggaagg tatgaaggag tattcagatg tccacaggcc 120
ccaatgaaat ttgatgggtg tgtaaggga accgagaatt ttgagcaagc acgagtttgc 180
agccaccgaa aattttgatg tatgaaatag cgattgtagt ttattatttt ttattcagtg 240

tacgtctcaa gttttatctt taatgagtga catatctggc agggaaactg aagcatatta 300
 tt 302

<210> 14915
 <211> 176
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-C8

<400> 14915

ggtcctaaat tcccgggtcg acccagcagc tccgaccggt tttgagttgt ggttgtgcaa 60
 aagatcagaa gatggctgcc ccttgttctg ctagagctat ggctgttgta aatgcaaaat 120
 gtaggggtata tataaggtgt gtataatgtt gggaaagaga atcacgattt tgtttc 176

<210> 14916
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-C9

<400> 14916

accggtgcta cattccccggg taccacccac gcgtccgacc acgcgtccgc ccacgcgtcc 60
 ggccaggcgc aggcgggtcag ggagcgagta ccgagcgccc cagttcacac gtgagatgtc 120
 agaatacaag aacgtcgttg gggggaggct aaagctgaag ggtaaggcac tggatgtgaa 180
 ggaaggtgga gtcaagaaga aaaaaagaa gcatcagctt gaagagtcgt ctcagattga 240
 gcacgatgag ctccacaaaag ggggaaactc tggcttacca gctgatcaca acaatgagct 300
 tattgaagct ggcaaggtgg gagatgaaga aaggaatcta catccagact acgaccacct 360
 cacaccggcg gagcgacgct atatagatca gaagcagaag atcgacatgc aaaagctggc 420
 caaagttgct aacaagtcac aca 443

<210> 14917
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-D1

<400> 14917

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cgcgccccg gtggccaccc ggcggttggt cgctccctc ctgccaccg cagcagcggt 120
gggggttggc gtggccggag gcgagggga agccggcgcg gtgtccacga gcaggagggc 180
gctcaggggc tccaagattc ctgagagcga attcaccacc ctgcccaatg gcctcaagta 240
ctacgacatc aaggtaggaa gtggggctga ggctgttaaa ggatcccggtg ttgcggtaca 300
ttatgtggcc aagtggaagg gcatcacatt catgacaagt aggcacggtc ttgggtgttg 360
tggtgggacg ccatatgggt ttgacgtagg caattctgag agaggcaatg ttttaaaagg 420
attg 424

<210> 14918

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-D2

<400> 14918

attctcgggt cgacggacgc gtccgaccac gaatccgcac ccatccgac ccaccggca 60
gcactcggca gggcgccgc gcaatggcca cccacgcagc tctcgccgc tcccgcatcc 120
ccgccggcg ccggctgcac agcagggcg cggcgtcgtc caggcacggc gtgcagaggc 180
tggaacttgc cgacttctcc gggctcaggc cggggtcgtg ctccgtgagc gctgccgcgc 240
gggaggcgtc cttctccgac gtccttggcg cgcagctcgt cgccaaggcc accggggaga 300
acgccgtgag ggcgcccgc gaggcgaagc tgaaggtggc gatcaacggc ttcggccgca 360
tcggccggaa cttcctccgg tgctggcacg gccgcgagga ctgcgcgac gacg 414

<210> 14919

<211> 263

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-D3

<400> 14919

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cgacacgcag gacgattttg tgcaagaggg tgatggtgga gactttgatg gagaatttat 120
cgacgaagaa ttctaagtct aacgatgcgc cggccaactt cctgtggaag attgcccagt 180
tgtttatttc cgctctactt tgatgtgata cttgtttaag acactatgtc tcagatgatg 240
taataaagtt ttatactctt ttt 263

<210> 14920
<211> 269
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-D4

<400> 14920

attcacgggt cgaccgacgc gtccggcgcc gtaccaagt ccacgctcac caccctcatc 60
gacaagtaca tcggtagtag ctcatgagcg cgcgagagag gcagcccatg tctcgtgatg 120
tgcccccgag ctgcatctgc atgcatggga tactgggatc gatgatacat gtgcccagct 180
cgcgcataaa caccatgtat ctctagcctt gcccttgc atatatggat ggatatatga 240
tatgacgatg atgcgtaatg cgttcattc 269

<210> 14921
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-E10

<400> 14921

cggtgctaaa ttcccgggta gaccacgcg tccgaccacg cgtccactgg aacgggaagg 60
acggcgagtt caagctgcag gtgcaccgca gctgggtct ggtgaacaag tcgtccgcgt 120
tcctcactga cgacaacctc gtgccggagt cgtggtgggt ggagcggaac aaggggatgg 180
tcatcggaga aaccgggctg tggcagctcg aaccgcctgg cgaggagccc gtaccgccgt 240
tcgtgaccgg gaaggctatc gatgacgacg accatgtcgc tgccaccacc accactacta 300
ctaccacggc tagtaaggag acgaagacac cggccaagga taagaatcgg ttcgggactc 360
agctttttctc ggcattgttt agaggggtca atcagtctgt cgataactga atggttgaat 420
gtttg 425

<210> 14922
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-E11

<400> 14922

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ccaccacac gtgtcccat ggccgccacc gcatctcag tccgcctcca cccaaccgcc 120
gcgcgccatg tggcctcgc ccgccgcgc cgcctcgggg ccgtccgcgc gcagtcgcgc 180
ccggcggcgc cgccggcggc gctgacgcag gacgacctca agcggctggc ggcggtggc 240
gccgtcgagc aggtgaagag cgggatggtg ctccgggctcg ggacgggctc cacggccgcc 300
ttcgccgtcg ccgagatcgg cgcgtcctg gccgcgggca agcccagaaa gatcgtcggc 360
gtgcccac 368

<210> 14923
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-E12

<400> 14923

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acgttcgcaa taactttcac ggcgatggtc aatacatcaa acacagtaga cgggttcagt 120
ttcgagttac atacagaatg tcttcatact agtggttctat taccgtaaca gtcgagacgc 180
actctcgat atccttctgt ccatacgacc acgaagccat gtttctacac ctacgactac 240
gccgaaatcg ccagcagcta tgtacaggca catgtgcagg agataatagt atgccaaagt 300
ccttgtcttc tacgacgagg tcacagtttc tgaactcgcc gtaagccgcg agtgcataaa 360
tcaagctcct gcagacgagg cgggtgcgga tctct 395

<210> 14924
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-E2

<400> 14924

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cgagcgatag ggcaactccc ctgcacgaat ccaactgctcc tcgtccctgc gccgcgcgcg 120
ctcgacggag tcggcctcat cgccgctcgg aatcaagtct ccccccaac gcacacacat 180
gctcgccaga tcccctccgt ctccaccgcc gtggtcgagc aagtgggtca agtcgctggg 240
ggccctcaag gtggccgaga aggcggcggg acataagggt ggccataggt accatctcag 300
gtggagctag ccggtcgtgt ccacggcgag cgctagcgag cgcagtgcgc tggcgtccga 360
ggcttctgcg gtttcgactg actcgtattc gttgaaacaa actgaagcag cgctattagg 420
ga 422

<210> 14925

<211> 231

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-E3

<400> 14925

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aagtcggacg ctatcaccac ggccacaaca gatgccctcg ctggcagttc tctcctcgga 120
agcacgcatg tcaccgtgga ccatgctcca ccagtggagt ctgacagcaa aacgaaccat 180
cagcaatgtg atctctctga tcgttcttga ggaggtttcc cacagaactg g 231

<210> 14926

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-E4

<400> 14926

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gttccacatc ggggacatgc cctacgccaa cggctacatc tcgcagtggg accagttcac 120
ggcgcaggtg ggcgccatca ccgcccgcaa gccctacatg gtgggcagcg gcaaccacga 180

gcgggactgg cccgacacgg cggcggttctg ggacgtgatg gactcgggcg gcgagtgcgg 240
 cgtccccgcc gagacctact actactaccc cgccgagaac cgggtcaact tctggtacaa 300
 ggtggactac ggcattgttc gcttctgcgt gggcgactcg gagcacgact ggcgcgtcgg 360
 cacgccgcag tacgacttca tcgagcactg cctctccacg gtggaccgca agcaccagcc 420
 gtgggt 426

<210> 14927

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-F1

<400> 14927

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 aagggtagag caattctttt ttctagagat tctagagaaa gtgagacaaa gtgaagcgaa 120
 agagttttct ttgtataaga attaggtcta tatcatatct aaatagaagg gaaatcaaaa 180
 agaagggag tggttgattac attggatgaa tccttaagga agacatatca caaaagaaat 240
 aaaggctaaa gtaagcgtc cttgcctttg gtttgagcaa aacagattct tgtttcaccg 300
 agggaaagag agaagttctg gataaattga caatgtcaac ttgaattgac taattcagtt 360
 ccgcctattc cacattaatg ggagtacatt tatgtttctg ctttacgaat atgatatttt 420
 ttggacattt ctaataatatg caag 444

<210> 14928

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-F10

<400> 14928

cccacgcgtc cgaaaaagag gagatcggac aaggcagagc gccatcggtc ggtttccttg 60
 ctgaattccc gatcgatcgc tcgctcgaaa agaaagaagc tagcttttag catggcgtct 120
 ctggcggttc gcagcaccgt agcggcggcc gtggcgcgca cctcaggag gagcgggccg 180
 gcgcgccggt ccgtgctggt cgtgccgcc gctgccagca gggcgggccc ggcgcggccc 240

aaggaggaga agggcctcgg cgagaccatc ttcgggttca ttttcaagaa ggaccatctg 300
 gtggagacgg acccgctcct caacaaggtc ggcgccgcgc ctgccgccgc ctgcgcgcgt 360
 aatacgaccg gcggcaagaa aggtaccggg g 391

<210> 14929
 <211> 136
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-F3

<400> 14929

ttctaggggtc gaccgacgcg tccgaggacg catgggtgaa ttttaatttg aagtaaaaaa 60
 ctggaaaagg gatgtttaca agttccttta ttggcaccct tttcagcact gctagcggca 120
 aaaaacttct ctcatc 136

<210> 14930
 <211> 374
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-F4

<400> 14930

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 gatcagcggg gcgccacgcc cgtcccagtg acaaaccaca tatcacctga tcacagaaag 120
 cgcttccggg aagcgcgcat aaacagccgt tgtccagcac atcagccgca taaaagagt 180
 tagcatcact gtgtggaagg gcagggatct taggtgaccg cgatgacgat gctcgtagtg 240
 agcgacagag ccacggatag agtggccacg ctactgatc cagcggttcg aggatcttga 300
 cagcgctgcg ttgtgacaga ttatctggac gttttgtgtc tgtctgacca ggtcattagc 360
 cgcataaag tcgc 374

<210> 14931
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-G1

<400> 14931

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gaagctcgcc gtcgccaggc cgteggcccg ctccatccgc aggccccgcg cagccgccgt 120
ggtggccaag tacggcgaca agagcgtcta ctttgacctc gacgacatcg gcaacaccac 180
cggacagtgg gacctctacg gctctgacgc gccctcgccc tacaacccgc tacagagcaa 240
gttcttcgag acgttcgcgg ctccgttcac caagagaggt ctgctgctca agttcctgct 300
gctgggcggc ggctcacttc tggcctacgt cagcgcgtcg gcgtcaccgg acctcctgcc 360
gatcaagaag ggacctcagg agccgccgca gccggggccg cgcggaaga tctaagctca 420
gc 422

<210> 14932

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-G2

<400> 14932

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gtcgcagccc cctcacgcca cgcgacatgg gcaagatcag gatgcccgtg ccgtccctgt 120
tccgcgcgcg ctctccaag ccgcgcgcgc cgcagccgca gcagcaggcg cctgccgcgg 180
gcgacggcga cggcagcggg tccccggagc gggcgacggc ggaggaggag atggcgcgcg 240
tgttccgcaa gttcgacgcg aacggcgacg ggcggatctc gcggtcggag ctggcggcgc 300
tgttcgagag cctgggccac ggcgcgtcgg acgacgaggt ggcgcgcatg atggccgagg 360
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<210> 14933

<211> 81

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-G6

<400> 14933

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tgagcgtcat tcaagtcaat g

81

<210> 14934

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-G7

<400> 14934

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agaaagaaaa aacagagagg aacaccccat ctgggttcacg cacgctaaac caccaacaca 120

gacagtagat tgctgctacg ctcttctttc gcctccaatc tgcgaggcaa ggcgtctgat 180

ccgctgcagc cgtacgtccc taggagctca cccaccccg cgaatcgaga actgactcgg 240

tcgccggcag catgcaaatc ataggccgag cgcgccgagc ggcgtcttgc cctgcccggc 300

ctcgaagtag aaggcgagca tggcaagcat ggcga 335

<210> 14935

<211> 166

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-G9

<400> 14935

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gctccgatgg gcgtatgcac gcaagcctgc ggcgccatgc gtctcctcct ggtcgacgct 120

ggggcgcgcg ctgctatcgg tccgcagctc atcgtcccaa tctctc 166

<210> 14936

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-H10

<400> 14936

ttccccgggta gactcacgcg tccgaattaa ttaagctcaa aattcatgtc atcttcatgc 60

aatttggttaa aactcatgac ctgtatacta ttaactgaat ttcgtgtggc actattatat 120

ataactcatg acctacatac tactaactga atttggtttg gtttttcttc aaaagcaaaa 180
 acaaaagatc ggtttcagtt tcgttttgat gtctgtgtgt ttgcaggatg atgttctggg 240
 cgccattcgt caacttcagg aagttcctga gggatccac catgaagtac ccttggtcca 300
 agccgaacga gggcacaccg ctgttcaaag acagataccc gcctatagac tcctagatac 360
 agccttgatg cttgtactcg gctcatcgcg cgccacgggc atgcatgcag cagcgaaaaag 420
 gccgg 425

<210> 14937

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-H11

<400> 14937

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 gtgaagcccc tggccatcaa gggctctgcc ggcagctcca tctccggaag gaagctcgcc 180
 gtcgccaggc cgtcggcccc ctccatccgc agggccccgc cagccgccgt ggtggccaag 240
 tacggcgaca agagcgtcta ctttgacctc gacgacatcg gcaacaccac cggacagtgg 300
 gacctctacg gctctgacgc gccctcgccc tacaaccgcg tacagagcaa gttcttcgag 360
 acgttcgcgg gtccgtttaa caa 383

<210> 14938

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-H5

<400> 14938

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 tccgctgcgg ctgacatcgc cgacgaagaa gtggaggccg agaacaaggt ggacccgcag 120
 gcggaggtgt gctacctgga ccctgacgtg gaccctgagt cgatccggga gtgggagctg 180
 gacttctgct cgcggcccat cctggacgcg cggggcaaga aggtgtggga gctcgtggtg 240

tgcgacgcca cgctgtcgct ccagttcacg cgctacttcc ccaacaacgc catcaacagc 300
 gtgacgctcc ggcagcgtct ggcctccgtg tccgaagcgc tgggcgtgcc catgcccgcac 360
 cgagtccgct tcttccggtc ccagatgcag accatcatca ac 402

<210> 14939

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-003-Q1-E1-H7

<400> 14939

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 cgacggaggc gaagctgaag gtggccatca atgggttcgg ccgcacgggg cgcaacttcc 180
 tgcggtgctg gcacggggcg ggcgacgcct cggccctcga cgtcatcgcc atcaacgaca 240
 ccggaggcgt caagcaggcg tcccacctgc tcaagtacga ctccacgctc ggcattcttc 300
 atgccgacgt caaaccgcgc ggcgacaacg ccattctcgt cgacggcaag gtcattcaacg 360
 tcgtgtccga ccgcaacccc agcaacctgc ccgtggggcg 400

<210> 14940

<211> 220

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-A2

<400> 14940

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 tggctccagc cataagtcaa ccagagtagt tccacctgaa ccttgcgagt atcaattgtg 120
 aggcacaaca ggacatccta ccaattgtac ttctaaatgt acagcatgga acttagagct 180
 tgctacatgt attatacagt acctttttat ttttcccatc 220

<210> 14941

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB36-004-Q1-E1-A4

<400> 14941

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ccggtcgtcg gcgcctggcg ctgctgccgc ccgcccgatc ttcgatggca agccatcccc 120
ctccgaggcc accgccactg cgagggtggct cgcgcgccag aacacgtggg gtgtcctcag 180
cacaatatca agtgacttaa gtggagctcc atttggcaat gtagtttcat atagtgatgg 240
agtaccaggc gagggccgtg gaatacccta cttttatctg acaactctgg atcccagtgc 300
aagagatgca ctggaagatg aaaggacctc ttttaccctt agtgagtcc ctctgggaac 360
ttgtggggaa atagatcctg anaacccac ttgtgcaaaa cttactctta atgggaagtt 420
gaagatgggt gaccctc 437

<210> 14942

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-A9

<400> 14942

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ccagcaccac accacagacc aaaacgacca ccgcacccgc agcagcgaag tgtccaagcg 120
gcggcatggc ggagagcaag gcgcgtgtcg cgctgttctt ggccggcgctc gcggcggcga 180
gcctgctggc gctggccccg gccggcgccg cgacgacgtg cgcgccgacg cagctgacct 240
cgtgcgcgcc cgccatcgtc gggaacgcgg cgcacccgc gccgtgctgc gccaggctca 300
aggcgcaccc ggcgacctgc ttctgccagt acaagaggaa cccagcatg cagcgctacg 360
tcaactcccc caacggcaag aaggtcttcg ccgcctgtaa ggtgtccctg cccaggtgct 420
gatgctgaat gattcgtct 439

<210> 14943

<211> 310

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB36-004-Q1-E1-B2

<400> 14943

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gctcatcaag gatatcatcc tgttcaaact tcacatatag ccaatcctgg cgtcgcatac 120
atgctatgaa actcaagtca aatctgtgct gtgagctcaa tacgtataag ttgtgctgcc 180
agtaatcctg catcatactc ctgctgaatc aacaatggaa agttaagcgg caactgctat 240
cagaataacg ggtacgacgt gtcaacatga atgaagcact gtgccttcaa aaggaaaaca 300
agtttgacat 310

<210> 14944

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-B5

<400> 14944

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ctcctgatcg tcctgttccg cacagctgca acgatggcgg ccgtaaccgg agaatcatgc 120
ggctcccgcg ggacaggaga acgcgtgctg catcgtgtac gttgacccc ccgaggacac 180
cgacccttac gatgtccgta tcggcaccct cacactcgtg ctcagcaggg agtaaaatcc 240
gctggacaca ctgctctacc tcgaaagaac acggcaccag cagcatcttc gccacactca 300
gcctgagtac gtcaagcatt tcaaggatca accacctgtt c 341

<210> 14945

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-B6

<400> 14945

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tttttttgct gcgaagaatt ttggggaata agagcacctc aaagtatcag caggggagat 120
acggcggttaa catttcatca tttcccccac ttgctcctga tttccccccc ttggtgaatg 180

tactgtcgac ttaacgtctt tcatagttat ttctttgtta caataaatag actttttgaa 240
ccatgtataa aatataaagc aagtgatttt atctttccac acttgcggtt aatccgagct 300
tgtatagcat cgaaaattcg agatcgagct aaagaaagct tcctattgaa ttctgctttt 360
aacactaaaa gcgaagg 377

<210> 14946

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-C11

<400> 14946

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agaacagact caaaacgaca ccttatagcg atcgctgcac ttaatccttg ttccatgcgc 120
agcaagcctc aggcttatta cccttgtttg tcagcgttgt gtaaaaactg taaccgggat 180
gctgtttctt cttcttcttc ttgggtcctt cttttttctg agtcgtcctt tgtggattca 240
aataataaat aaagtcttgt 260

<210> 14947

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-D11

<400> 14947

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gatctcgacc gtcgctcacc gggaagctac gctacgacga agcatggcgt ccgtcaccgc 120
ccgcgccccg gtcgcgccc tgcccccgtc ggcgtctctc aagtcgtcgt cgtcgtcggc 180
ggcggccttc cttggccact ctaccgcct cggccgcact gctaccgcgt cgcgcagag 240
gcgcagccta aaggcggagg ccaagggcga gtggctcccg ggccttcctt cccccgcta 300
cctcgacggc agcctgccgg gtgacaatgg cttcgaccgg ttgggcctgg cggaggaccc 360
ggagaacctg aggtggtagc tgcaggcgga gctggtgaac gggcgggtgg cgatgctggg 420

<210> 14948
<211> 464
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-D9

<400> 14948

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tgatatttca agcttcactc ttgtcaatcg cgctcacagt gtattgggct ggttcaattt 180
cgcaaacgac acctctactt atattcctag catccattgc attgtcgcgg ttggggcaca 240
tgtcttatga tgttgtgggg actcaaattg tccagacagg tgttcctgct tctaaagcaa 300
atctaattgg aggaatggag gtttcaattg caagccttgc ggagctagtc atgcttgeta 360
tggctataat tgcaatgat gtctccatt tcggcttctt ggcgatcctg tctgtgtcat 420
cagttgctgg ggcagcatgg atgttctgtc cgtgggtaac aaat 464

<210> 14949
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-E11

<400> 14949

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tcccccttcc ttccatccat ccatggcatg cgtcagcacc ttccagagct gcccattgc 120
cagaagagca aagatcaaca ccagggtccag ggcagcagc agtagcgtgg cgaaggggtc 180
accaccacca gccttccagt tccagtgcag ggcgtcgact ttgcggcgg acaccagcct 240
ccggctcgag ctggacgaga accccgaggc gatcatctcg ggggcgtggc ccgggaactg 300
ctccctcttc agctacgacg acctccgcgc ctacctcgag tcgcaggaga cggcggccca 360
ggcagacgat cagcggggcg tggcgctcct gagcgagacc atgtccacac ccgtgctggt 420
ggccacagca ga 432

<210> 14950
<211> 111

<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-F4

<400> 14950

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attgagcgtg gataggcgtc agattctacg agacgacctt atattgcttc c 111

<210> 14951
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-F6

<400> 14951

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catcctctct ttcagccacc aattttgctt tactccagag ctgaatgcca acctcttggt 120
tgtggtgacc aaaccaacc gttcttcacc tcccgtgga caaggcttcc cacaagtatt 180
cttgaccgtg tactacttgt tccatgctcg acaaagaatt cctagaagaa gaagatgaaa 240
ttcaagaagt ggtttcggaa gaggagtctg cttagtgct tgctcatcaa gtgatgggag 300
ccatctaact gggatattta tagagggatt tggaacctct tcattgcaat aaggatga 360
ggagtactct aggtgttcct aaggctggag ggtgtttcca gttctggagg aagattagtt 420

<210> 14952
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-F7

<400> 14952

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accacgtca gtggagtctg aagtcgagac gaaggctggc agcaccgtga ctgaaggacc 180
agcagtggtc aattctgcac ctatagcaga cgctagcacg ggatcatctc ctgccactac 240
taggcccaga cctcagtcac cataccctaa ttatccagat ttcaagccac catcctcgcc 300

ttcgccgtca gcaccttaat ttggcaagag tacaagaaac cgggtctaga ggatattaaa 360
gaagttgagt tgttcatatg gagccggcat ctccaccagag gtgcatgttg tactatgatc 420
gtga 424

<210> 14953

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-G12

<400> 14953

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caatggtgat ggcgtcgctg agcgggctga ggagctgcag cggcgtgggc gtgcccagcc 120
tgctggctcc gtcgtcccgg tccggccgcc tggcgccgtt ctgcgccaac gccaccacct 180
ctggccgcgt caccatgtcc gcggagtga tgcccgcca gccacgcct gccacctcg 240
acggctcctc tcccggggac ttcggcttcg atccgctggg cctcgcgacc gtgccggaga 300
acttcgagcg gttcaaggag tcagaggtgt accactgccg ctgggccatg cttgccgtcc 360
ccgggatact ggtgccggaa gctctgggcc tgggcaactg gg 402

<210> 14954

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-G5

<400> 14954

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tggccatctg ggcgtgccag gtggtgctca tgggcgcgt cgaggggtac cgcgtcgccg 120
gcggcccgt cggggaggtg gtcgaccgc tgtacctgg cggcagcttc gaccgcctcg 180
ggctcgcca cgaccggag gcgttcgcc agctcaagg gaaggagatc aagaacggcc 240
gcctcgccat gttctccatg ttcggcttct tcgtgcaggc tatcgtcacc ggcaagggcc 300
ccctcgagaa cctcgccgac cacatcgccg acccgtcaa caacaacgcc tgggcttacg 360
ccaccaactt cgtccccggc aagtgagcga gggcatgatg cttgcatgcg tgtaccgtag 420

acgtaccgta ttctctacgta ctgcaggttg cacc

454

<210> 14955

<211> 109

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-G6

<400> 14955

gagcaccaaa aacttcttta ggcatacttg aaaatccata caggtaccac aaaaactgac 60

acaatgtttc accatagtag catccatagc gggacacgtc ctttttaac 109

<210> 14956

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-H10

<400> 14956

taccggtcga caattcccgg gtcgaaccac gcgtccggtg gaaagagggt ccatgtctgg 60

ttcaccaacc tccacaactc catcagggat gaccgctatc tgattggccg aagggtgcac 120

aactttggtg aggacacacc cgagccgagt gaatctggag caactatagg gtcagatgat 180

caggaccaag ctcttgtcct gcgagatcag gaagaggaag tgggggttgag gatgaggcgc 240

aataatatgc gtgcaaacca acaaccagg ctggcttttt aaggaggaga tagttttgga 300

tatagagctc ataaccatgg tataagcttt ggctgcagc ttctgcttgt gctttgtaat 360

gggagttgta gaggggggtt atgtggttgc gataggaaag agtctaagga ctgttctacg 420

acaagcctgg gagaaag 437

<210> 14957

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-H8

<400> 14957

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acatccaaat attgtccagt tgaggatgga tagatgctaa caatactgat ttcttgcaga 120
 aagtgttcac tctgaagacg ccccaacttg ttcatacagt aatgtacttt cagttatttt 180
 gtttttgtta ttggtttgta tgaatgctgt agttggtttc atgtttggat atgcttgat 240
 gattattaat ctggaaatgg taaaaacaat tcagatgaac attgttagtg tacgaaaata 300
 tggtttaatt tgtttatatg cctaa 325

<210> 14958
 <211> 213
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-H9

<400> 14958

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 cccaaccag tgcaagaaca agatcgagtc catgaagaag cggtagcggg cggaggccgc 120
 agcggctgtg ctgctggtc ccgcgctgc aggctcgatc tgcaggttct ttgcccacat 180
 tgacgggctg ctcaaatggc ctacgctctg ctc 213

<210> 14959
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-A1

<400> 14959

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 ggggtgaccc cccaccctcc tccctagggc tcttcaccgc catgctgcca agaaggcaga 120
 gcattctcca cctcggggag gaggggtggc cgcgcgcgt gcaccaccgc gtcagcgtcg 180
 tcggcgccgc atcgtcgtcc atggccatgg gggcgggcgg cggcgggcgg cgtgctcgcg 240
 agcgtgagcg cctcgtcgtg gggctccaga tcttggtgca ccaccaccac cacggccggc 300
 acgggcacgg gcacgcgcac gggcggaacg tagtctgaa gcagatggtg aggccgcgcg 360
 ccgccgctgg ctgcgcccac ggccacggca gccacgcctt ctgctgcagt ttctca 417

<210> 14960
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-A10

<400> 14960

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tcggaggcgt gtcatgcccc tacatctgtg gcaggcacct tgaccatggg gttctccttg 120
ttggatatgg tgcttctggg ttgcggccca ttgcgctgaa ggacaagcct tactggatca 180
tcaagaactc gtggggcgag aactgggggg agaacggata ctacaagata tgcaggggtt 240
ccaacgttcg caacaagtgc ggcgtcgatt ccatggcttc taccgtgtcc gcagtccacg 300
cctcgaagga gtagactctg gtcagcgggtg ataatcgtga ttccatatat tgtagaacta 360
taatccctgc tagtaatcca tttgtgctgt ttat 394

<210> 14961
<211> 394
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB36-005-Q1-E1-A7

<400> 14961

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atatgcaggg gttccaacgt tcgcaacaag tgcggcgctg attccatggg ctctaccgtg 120
tccgcagtcc acgcctcgaa ggagtagact ctggtcagcg gtgataatcg tgattccata 180
tattgtagaa ctataatccc tgctagtaat ccatttgtgc tgtttatgta tcgaaggcag 240
caaagatgtg tgaagcggca atgggatgct tgctgtaagg taatatgttt ggcttgctag 300
gcatgctaca cgctatttgg atgtagcaac gttatcacca gctgtatacg ctttttaatc 360
gacaacattt gaataatatg tacataacat taan 394

<210> 14962
<211> 295
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-A8

<400> 14962

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gcgacaagcg gtggttcaag ggccgccagga agggcgctcg gaaggccgcc gcctccttca 120
gcgtcgcgctg accgacgtaa actattgttt ctttgatgct tttcatcagg gatgcacatg 180
cacgcaccgt gtgtacgtag agagctaggc atggcctggc tcgccatgct tgttggtgtg 240
ttctttgatt gtacatgaga ggaccggttt ctgctgccat ccaagttgtt tgaga 295

<210> 14963

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-B11

<400> 14963

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tcctcccgtc acgccaccgc agcgcccacc gcgggggctc agaagattgt ctcccttttc 180
agcaagaagc ctgccagaa gcccaagccc gctgcggtat cgtcgtcttc tccagacatc 240
agcgacgagc tcgccaagtg gtatggctct gacaggagga tctacctgcc ggatgggctg 300
ttggaccggt cggaggtgcc ggagtacctc accggagagg tccctggaga ctatggctac 360
gacctttttg gcctgggcaa gaagccagag gacttctcca agtttcaggc ctacgagctg 420
attcat 426

<210> 14964

<211> 281

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-B3

<400> 14964

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aggaagggcg tcgagaaggc cgccgctcc ttcagcgctg cgtgaccgac gtaaaactatt 120

gtttctttga tgcttttcat cagggatgca catgcacgca ccgtgtgtac gtagagagct 180
 aggcattggcc tggctcgcca tgcttgttgt gtgtttcttt gattgtacat gagaggaccc 240
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<210> 14965

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-B4

<400> 14965

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 gtaagctcga gttcaccaga ggcgtcaaga agctggcctt ccaggtgagc ttctcccgta 180
 gcgggaacga cgacgacgcg gcggcgccca agggcgccct ttcgggctcc ataactgggt 240
 cagacgaaaa gcacatggtc cgcagcccggt ttgtgggtcac cagctgaaac atcatggcaa 300
 tacctgacgc gcaggcacgt caagaaatgc tgtgatctca gatataaagt ataggatagc 360
 atgttgaaag ccactgctag tggcaaactc agaatcatcg aagattctga aactgg 416

<210> 14966

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-B6

<400> 14966

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 tcatccgaaa cttgaaattg gtgaagggcg attcaaaagt catagttatg gattctaattg 180
 gagctcgatc aaaagccatt gctagggttac tgaagaagct cgggtgtgcag cgaccttacc 240
 ttgttaaagg tggtttccaa geatgggtcaa agaaccctcg tgtcaaagaa ctgaaacctg 300
 agactgcatt aacgtcaata aatgaggatg ttgaggaaat cctagaacaa ataaagccca 360
 ctccaactct tgtgtttgga tctcttctgg gcctctcggc actttcctat gctttacttg 420

aatgggagat ga

432

<210> 14967

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-B9

<400> 14967

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caagcccgcc gcggcagtg cgcaggccgc cgccgcctca tcgccggcga agcgggtgca 180
gctggccgcy cccgagggcc gccgcgccgc tctgctcggc ctggcggccg tcttcgccgt 240
cacggccacc accgggtcgg ccaaggccac gatcttcgat gagtacctg agaagagcaa 300
ggccaacaat gagctgaacg acaagaagag gctggccacc agtggcgcca actttgcgcy 360
cgcctacacc gtggagttcg gcagctgcc agtcccctac aacttactg g 411

<210> 14968

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-C1

<400> 14968

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tgagcaaaga aagagagcga gaagcagtcg ccatgtctgg catcatccac aagatcgagg 120
agaagctcca catggggggc gaccacaaga ataaggagga ggagcaccac aagaaggccg 180
aggagcacca caagaaggag gagggggagc accacaagaa ggacggcggg gagcacaagg 240
aaggcatcgt ggagaagatc aaggacaaga tcaccggcga gcacggcgac aagtccggcg 300
accacaagga gaagaaggac aagaagaaga aggataagaa gaagcacggc gagggccacg 360
accacgacgg cggccacagt agcagcagca gcgacagcga ctgagatctg gtgtcgcagg 420
taattaattg atctggggct gtaatttttt ttc 453

<210> 14969

<211> 461
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-005-Q1-E1-C11

 <400> 14969

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 cagtgtgttc ttcaacttca ggactcttca ctcttttcat tgggtgttta cttggccaag 120
 actccataaa tgctgcgaaa attattgctg ttttcattag catggctggc gttgtaatga 180
 caactgtggg ccagacttgg gcactctgat aatcagaagc aggcaaactc ggtttttacac 240
 agaggactct tctaggtgat atgtttgggc ttatgtcagc aatcgccat ggtctattta 300
 ctgtgtgtct taaaaaattt tgtggagagg aaggagaaaa gttgatgtc caaaaactgt 360
 ttgggttatct tgggcttttt acccttggtg ctctatgggt gattgtctgg ccattaaccg 420
 cactaggcgt tgagccaaag ttttcaatgc cccactcagc t 461

<210> 14970
 <211> 331
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB36-005-Q1-E1-C2

 <400> 14970

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 tgaacggatt cattacagca gcaggtaaca tgacaatgaa tgtagcagta gcaatctcat 120
 ttttacagtg gctaaaccaa tcaatcaacc gaacggacga aggagactag gggaggaagg 180
 aattgtagca gcgatctcgc tcaccattct caccgggacg cccgcggaat cctcaaatcc 240
 acccgaaccg gtcaccatth ttttcttgag atactttgga cacctttcct ttgaccactc 300
 aatcagcgtt ccttcncctg ctccgggtccg a 331

<210> 14971
 <211> 443
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-005-Q1-E1-D1

<400> 14971

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agtagctagc catgctcggc ctccccgccg cgtcccgccg cgcgcagca ccgccgaacc 120
cgaagggcaa ggggcgatgc agcgccgcc cgcaccagc gatgacaggc cgggtgtctc 180
tggctgtccc tgcggcggct gtctcgctct cgctcttct ctggtccagt ccagtgaacg 240
ccggcatcct gtccggtttc tcgggactgg agtcgactcc cggccccgac ctcccccgcc 300
tcgagttcct ggagaaatgg aatgcggaga accagaagaa gtacaccgag ttcgataaca 360
ggttcaagaa gtccaaggtg ctgcaggacc tgctcgagaa gagcaggaag aacaaagaga 420
agaacgagag gatgatccag gac 443

<210> 14972

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-D10

<400> 14972

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atctctgggt cccaaagctc ccttcacaaa tactggtgca acctgcagta cgtaggaata 120
cgtacgtcta cgggtacacgc atgcaagcat catgccctcg ctcaattgcc ggggacgaag 180
ttggtggcgt aagcccaggc gttgttggtg acggggtcgg cgatgtggtc ggcgaggttc 240
tcgagggggc ccttgccggg gacgatagcc tgcacgaaga agccgaacat ggagaacatg 300
gcgaggcggc cgttcttgat ctcttcacc ttgagctcgg cga 343

<210> 14973

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-D11

<400> 14973

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tgtgcatatg ccaggacaga gcagatgttc gcttgcttca gatgagagga taaatgctct 120

tacgcacaac attatggctc ttacacatta tctgatagca tcaagctctc gagcggttcct 180
 tgcacgtagt agatgtctga catcgaactg cattttccgt gctatggatg gactccccgt 240
 gaccatctta ctccagcagg ctctactcca agagttcctt ccacaatgga acatccaaga 300
 cattgtacat caagtatgtg cagagacagg agccatgtat caggatactc tccccggaag 360
 ttataatcgt tcagaactaa catcagacgc ttggcttcca tgggtgc 407

<210> 14974
 <211> 262
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-D3

<400> 14974

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 agcgggctga ggagctgcag cgccgtgggc gtgcccagcc tgctggctcc gtcgtccccg 120
 tccggccgcc tggcgccgtt ctgcgccaac gccaccacct ctggccgcgt caccatgtcc 180
 gcggagtgga cggccggcca gccacgcct gccaccta acggctctc tccccgggac 240
 atcggttcg atccgtggg cc 262

<210> 14975
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-D9

<400> 14975

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 gcacgcgcga ggccttctc accatgtctt gccacttcaa gttcggcctc ttctacttct 180
 tcgcccgtg ggtcgtcatc atgaccgtct tcatcgctt ctctctgcc gagaccaaga 240
 acgtgcccac cgaggagatg gtgcttgtct ggaagtcaca ctgggttctgg aaaaggttca 300
 tcgccgacga ggacgtgcac gtcggcattg gcaacaacca cccggccaaa aacggcagcg 360
 acaccaaggg ggccgacgcg tgaacgtgat ctcaacatct atattccatc tacagtcaca 420

actgaaat

428

<210> 14976

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-E1

<400> 14976

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gagccacagg cacaggcagg ctctcgagct cagtccaccc agcgcagggg atggcgctcg 120
cggtcgccgt ggcaacggtc ccgtcgctgg cggccccggc ggccaagaag cggtcggggc 180
gcgtcacgta cgtggagggc atgaacgcct acagcggcct caaggggctc aacaagggtga 240
acatgctcgg ggtgcgcaag accgccgact actccttcgc caaggctcgtg gcgtcgctca 300
gccccgcggg caggaagcgg cgcggcggcg cggtcgggcg ccagatgaac gccgccgccc 360
agatcttcag gatcgccgcc accatgaacg gcctcgctgt cgtcggcgct gccgtcgggt 420
tcgtgctgct ccgggtg 437

<210> 14977

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-E6

<400> 14977

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gctccgcctc cgcggtggcg ccaagaagcg taagaagaag acgtacacca agccaagaa 120
gatcaagcac aagcacaaga aggtgaagct ctccgtgctg cagttctata aggtggacga 180
cgccacaggg aaggtgaccc gcctccgcaa ggagtgcgcc aacacagagt gcggcgcggg 240
cgtcttcatt gccaaacct tcgaccgcca ctactgcggc aagtgcggcc tcacctatgt 300
ctacaaccag aaggcgtaat tgcttgcccc gatttgcttt atccgccaac ctatcaagca 360
ttcagatggt gggtactcaa attgtatc 388

<210> 14978
<211> 288
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-E9

<400> 14978

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gttctgcgag ctctacctc cctgtggtgc ttggtcatgg tcgactacca cttcgtgtat 120
aacgacttgg aggggggcgag cacatcgtgg gacgacatcc agcgccgcgt caggaacttg 180
cctccgaagc cggagccctc caagccggct tttctcccc cgaaggttga cgccaactac 240
caaccaagt ccaacggatg gcctgacgtt cccaacccg aacaactc 288

<210> 14979
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-F1

<400> 14979

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acgtggtcca tacatcttat cagtgcgaagt ttgtgatcat gtgatacatg aagcatatac 120
gtgtacgtat ttcaccagac tacctgcacc ggtgagcaag atgatctcct acttgcacca 180
ccattagagc agtggatatg atctcatact tgcgcgttgc actagtagag ttgtggatac 240
ttaggatcca tcattgcaaa ctctgataca aaccagtgtg agctgagctg catggattgc 300
agatctgtat acctacggct catgcagcta taccgtcctg gattgtacca cacaatcaat 360
attatcaaat gtaagatacg acttggaggg aagcttataa agacttcccc gtgaatg 417

<210> 14980
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-F12

<400> 14980

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acatggctct ctactaccgc cagcgggcga cgcccggcgg ctctctcatc gccgaggcct 120
 gcgccgtgtc ggagagcgcg cgcggggtacc cggacgttcc ggggctgtgg acccaccaac 180
 aggtcgagggc ctggaagccg atcgctcgacg ccgtccacgc cagcgggtgcc gtcttcttcg 240
 cccagctctg gcacaccggc cgggcctccc cctcagaatt ccaaccaaatt gggcaagcac 300
 cgatctctaa cacggacaag caaatcccaa cacaagtga ccatcccggt gacgtcaaca 360
 cgttcgcggt gcctccgag 379

<210> 14981
 <211> 463
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-F5

<400> 14981

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 tgcgggtcgc gtccaagcag gcctacatct gccgtgactg cgggtacatc tacaacgaca 180
 ggacgcggtt cgacaagctg gctgacaact acttctgccc tgtttgtgga gctccgaaga 240
 gaaggttcag accctacgag ccggcagtct ccaagaacgc gaacgccacc gatgccagaa 300
 aggcgaggaa ggaggagctg aagaaggagg agagcatggg gaaagccttg cctattgcca 360
 tcgtcgctcg gatcattgcc ttggctggcc tgtacttcta cctcaacaat gtctacagct 420
 aaacgatgaa tagaccggtt tggcgcgcg aacaggattc atg 463

<210> 14982
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-F6

<400> 14982

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 tgccactctt tgtggttgtt agtagcatca tgagaggagc agcaccggtg aaccgggaat 120
 ctcatccac ggtgaataaa gctggaaaagg ttaataactg tggatctggt ccttagttct 180

ttcagaatgt gcacctggcg gtcacgttta gcttctgtcc attattgatg cttgaccagt 240
 cggaggtgtt taggatctgt ttgcagattg atgacttcca tggatccttg tatcagtttg 300
 aatctagaac actaagggttc taatccattc ctttttagtc gattctctgt cgagttaaag 360
 cgccatggcc cttgtattag tgtggcacac gaatggaatg tgagctggtc ctct 414

<210> 14983
 <211> 269
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-F7

<400> 14983

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 aaggaagaaa aaaggaaaaa aaaaaaaaaa agggggaaaa ttaaacagga gcaaaaggga 120
 aaacccccct aaaagaggaa aaacaaaaca cccaaaagg acaaggggaa aacggaaagc 180
 accaaggcca aggggaaacg ggaaatcccg aaaacaaaaa aaaaaggga agcctggaaa 240
 aacaaaaaag aaaaccaggg gatcaagaa 269

<210> 14984
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-G1

<400> 14984

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 gccgactggc aatgctccac ctgccattca gttcgttggt gaggtattaa tcaccagcca 120
 tgttggcgct tggcggcatg cagatggagc agaacatcca ggtgaagcgg acagatacat 180
 gatcgatcat gagttggcac agacacaggc cagacagcca gaggccatac tccaattcat 240
 agatttcatg ataagcaaag gaagatccaa gactacacaa atatacaaag agttagttat 300
 acgagcaaaa acttttgggt cttgtgtgtc tgtgctctcc atttttcaga ccagaattaa 360
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 gcacggggga aaaaaaaaaa gggcgggcg 449

<210> 14985
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-G2

<400> 14985

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ccgtgggtgct tgccgagctc aatcccaagc taccgcggcg tccttgctcg gatctcctcc 120
ctgcagcgcc caaccgaagc ttctatcgtg gaacgcgcgc ctctctgct tctcctcaag 180
tggagtcttc cctgcgcgcg cctacgtcct gcgtcgcgaa ctcccctggt gttagcaacc 240
tccaatcaca tgaacacaat agccaccacc aaagcaaggg tataaatctg atacatgcat 300
acactagtac agagatggag tttgggaagt agcaagcagg gaagggaaga agattaaccg 360
catcgaaagg ttagaagcat cacaagcaca tctca 395

<210> 14986
<211> 311
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-G3

<400> 14986

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atgtctacta ctgctacgta ctactactga ataaaaaac ctctccgcgc acatcgtcct 120
tgtgtttgtg tgtgtgagag agagaggaga cggagagccg gccatgtcct tttggctggt 180
tgtttggttt atttttgagt tcatgcggtc tttatttatt tccatgtacg ctgcttcctc 240
gtaccactt taaatttgta ccatgcatgc atgttcctta tgatacactc acctcttttt 300
gtttgcaaaa a 311

<210> 14987
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-H1

<400> 14987

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cttctttttgc accacaaggt cgaggatgtc ttgcaactgc ggatcaagct gcggctgcgg 120

ctcaagctgc aagtgcggca agaagtaccc tgacctggag gagacgagca ccgccgcgca 180

ggccaccgtc gtcctcggcg tggccccgga gaagaaggcc gcgcccagat tcgtcgaggc 240

cgcggcggag tccggcgagg ccgccacgg ctgcagctgc ggtggcaact gcaagtgcga 300

cccctgcaac tgctgatcac atcgatcgac gaccatggat atgattatta tctatctagc 360

ttgtggtggt ggttgaacaa taataagcga ggccgagctg gctgccatac ataggtattg 420

tgtggtgtgt gtgagagaga gagaacaga g 451

<210> 14988

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-H12

<400> 14988

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gccggcacgg caagtccgc gtccgcgtct cccgcgtctg gcgccgccg gccgcggcgg 120

ggggcgacgt catcggtgag tggaacgtcg ccgtcagtat cgtctccgac tgccctccct 180

cctacacctc cagcgacaac tccgccatcg tcgccacaga ttccatcaag aacaccgtgt 240

atgtcaaggc gaaagagtgc acggaagtgg tgtccatgga ggaattcgcc gtgattcttg 300

gaaggcattt cacttcgctg taccctcagg ttccagaggc cacggtgact atcgtggagc 360

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<210> 14989

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-H5

<400> 14989

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ccatcgagaa cctcttcgac cacgtcgccg accccgtcgc caacaacgcc tgggcatacg 120
ccacgaactt cgtccccggc aactaactga ctgagcaacg ccgtacatgt gtactaccat 180
cagatccatc cattcgttcg tccgtccgtc gagtgaacag tgtggtcttc totgtactct 240
acttgttcag atcgtaggag tgtagtagtt gcaccagccg gcgtaggctc atgatcgatg 300
tgtgctcatc aagcaatgtc aatggctgcc tgctgtaagc ggtcgatgta caccacccac 360
agacgcat 368

<210> 14990

<211> 165

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-A11

<400> 14990

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tccaatccaa aacaatgggt ccaagaaaag gaaccttcct cccaaaaaac ccaagttaac 120
cgttcaaaag aaaggttaatt taaaaaaagg aatccgttta acctt 165

<210> 14991

<211> 301

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-A2

<400> 14991

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aattgagaga ccgtgaaatg gcattgaagg cccacataac agccctcagt gacaggagca 120
aggaattgag caaagcagag gaagagtctg gagagacagg acctatggtc aatgaagaag 180
atatccagca catagtatct tcatggactg gcatccctgt ggagaagggt tccagcgagg 240
agtctgataa gtttcgtaag atgggacaga ctttggacaa gcgtgtcatc ggccaagatg 300
a 301

<210> 14992

<211> 309

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-006-Q1-E1-A5
 <400> 14992
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 gcaggcacct tgaccatggg gttctccttg ttggatatgg tgcttctggt ttgcgaccca 180
 ctgcctgaa tgacaagcct tactggatca tcaagaactc gtggggctag aactgcgggg 240
 acaacggatc cttccacata tgcacgggtt ccaccgttcc caagatgtgc tccgtcgatg 300
 ccacggtcc 309

<210> 14993
 <211> 280
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-006-Q1-E1-A8
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 gctaggatca gcggaagcag caatggatgat ggcgtcgtcg agcgggctga ggagctgcag 120
 cgccgtgggc gtgccagcc tgctggcgcc gtcgtcccg tccggccgcc tggcgccgtt 180
 ctgcgccaac gccaccacct ctggccgcgt ccacacgtcg gcggagtggc cggcccgccc 240
 tgcacgcgt gcgcacctcg acgcggccgc tccgggggac 280

<210> 14994
 <211> 409
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-006-Q1-E1-B12
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 ttcatctcc tccgcacctc ctgtttctct ccgtgggcag ctctggtgcc ccgccgtcga 120
 cttctctctg ggctccac tgccggtgat cccccgccc cggcgctccc gccaaactcg 180

aagctcgccg ccccgccggt tgtgggaacg ccggagcccc cgctgccgtt tagggccgtg 240
gaggcggaga tccttcgcga tattgacccc gtcgtcctgc tcatcaagga tatcctccac 300
tccgatagat acgggggatgg cgaatgtctc tgcccaaggg acgaaaatgt cgctcgtggag 360
aagctcctct cctaccatcc acgcgcgcag gacaaaattg ggtgtggac 409

<210> 14995

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-B3

<400> 14995

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ctacgcttcg cttcctcggc gccgattcct cctcctctc ctcaccctc gtcggtcccg 120
ttccggcgcg cgagctcgcc cgagatggcg aacgcgagat cgggtgtcgc tgtgaacgat 180
gagtgcacgc tgaagtttgg cgagcttcag tcgaagaggc tgcaccgctt cataactttc 240
aagatggacg acaagttcaa ggagatagtt gtggaccagg tcggggatcg cgctaccagc 300
tacgatgact tcacaaacag cctccctgag aatgactgcc gatacgcgat ctatgatttc 360
gac 363

<210> 14996

<211> 369

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-006-Q1-E1-B5

<400> 14996

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ccgccgcacg ggctccccag gtaagcagta gcgtccacc cagccgccgc catgaagcgc 120
aacccccgcg tcacgagctc ccgcgcgaag tgccgcaagg cgcacttcac ggccccgtcc 180
tccgtccgcc gcgtgctcat gtccgcggcg cgatcgacgg agtccgccca caagtacaat 240
gtgcgttcca tcccgatccg caaggacgac caggtgcagg tcctgcgcgg cacctacaag 300

ggccgtgagg gcaaagtcgt gcaggtgtac cgccgtcact gggcatcca gcttgagcgg 360
atcacccgc 369

<210> 14997
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-B7

<400> 14997

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cctccgagtt cgagcgacca tgtcggggcg tggcaagggc ggaagggtc tgggcaaagg 120
cggcgccaag cgtcacgca aggttctccg cgacaacatc caggcatca cgaagccggc 180
gatccggagg ctggcgagga ggggcggcgt gaagcgcac tggggctca tctacgagga 240
gacccgcggc gtgtcaaga tcttctcga gaacgtcatc cgcgacgccc taacctacac 300
cgagcacgcc cgccgaaga ccgtcacgc catggacgtc gtctacgccc tcaagcgcca 360
gggtcccacc ctgaccgat tcggccgctg acaggcgcca ccgcc 405

<210> 14998
<211> 299
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-C1

<400> 14998

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ccatggcgcc cgccttctcg gtctcgtcgc cgcccgatc ctgcgcccg ctggccgcca 120
gccccggccc cagcgtcgtc gtctcgcct cctcccaact tcccgcgtcg tcgcggagca 180
gcgaacgcag gagagacca ggctcgcgc tcgcgcggc cccgggtgtc ggcggtaggg 240
atggcgggtgg caggtggaga gcaagcatct cgtccttccc cttctgccc ccgttcttc 299

<210> 14999
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-C12

<400> 14999

attcacgggt cgaccgacgc gtccgaccac gcgtccgatg gagtatcggg tgcatttttg 60
cggagatctt aactgggaag ccatttttttc caggaaataa aggcttccca gttaagatct 120
cctggaaaaa atgtgggtcca ccagtttagat ttgatgactg atctcttggg tactccatca 180
cttgatacag tttccaggat tcggaatgag aaggcaagga ggtacttgag tagcatgagg 240
aaaaaacagc cagtaccatt tactgaaaag tttcctaaag cagatcctgc tgcactcaaa 300
cttttgcaga ggcttttggc atttgatccc aaggataggc caactgctga agaggcattg 360
gctgatccgt attttaaagg cctcgcaaaa gtagagagag aaccatcatg ccagccaata 420
ac 422

<210> 15000

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-C4

<400> 15000

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tcagagctgc gaacaaagca gggatggact tccacgaact gatcgagatc ccacacggcg 120
accggcggcg gtaccacgac gacgtatctg tcattgttat atccttggag ggcaggatct 180
ggaggtcatg cgtgtaaata ggtcggccat actagattag agaaagaaac gtatatatct 240
gtagagagag aggttcttgg aggctactc cattactccc agctgtcct gtacaatata 300
aacgaagcac cactgggtgg gcttgggata tcggcgcgtc caagttgaat cacgatgaga 360
agatgcgtcc ccctggagcg cagtgccgta taagatgttc atgttaaaga agatctgttc 420

<210> 15001

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-C7

<400> 15001

gcctgcacgt aacgggtcgta aattccgggt ccaccacgc gtccgacgat gacgatgatg 60
 ataccatata taatctagga ctgcgcatat atatattttg ttccagaaat gatcgatcac 120
 tgtactgtac tgtaaaatct tatagattat tacacgcatg gtgtgcgctg catcttcatt 180
 agttgttaat aatggcgcac acatgggtgat ctctctgtat ttgaatattt gatcacaaag 240
 tatttgtttc aaattaaaaa agagacaaga aaaagaaaaa gaaaaaacg aaaataatca 300
 acaacaaatc aaaaacagaa aggcagcac 329

<210> 15002

<211> 189

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-C8

<400> 15002

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 gagagcgggt ttagttagag gctacgggcg gtcgggcgcg gcggcggcgg tggccatgag 120
 cagcgggagc cagagcacta ccgccagcac gtggcccag ctggtcacgc cgcactcctt 180
 ggcgcgcga 189

<210> 15003

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-D1

<400> 15003

tcgacccgcc cgtccgcttg agtatattgg cggataagaa ggtgaacaag aagttgacag 60
 ccaagctgac cctataacta ggatgtgttg tgccttctgg tggtgaaacc gtctctttaa 120
 gcaactgaac tggtttaact ataacagaag agctcagtga tttacccttt agaaaatcct 180
 ctacccttgct agctctgatg gcatggtcag ctccataagc accgagtacc aagcatatat 240
 cctccatgat gttcttcctt gaagctgcat cagttgaagt ccttgccaag agagcagcat 300
 tgacatatga agcagcattg ccaaatggtc gaggcgctgc ccggaatgtc tcaaagggtga 360
 ggccatcgca atcgactttt gggaggc 387

<210> 15004
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-D10

<400> 15004

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accccgagg agccaagcca tggcgtccac ctctgctgc ctctccacc agtcaaccgc 120
ccgcctcggc gcgtcgccgc gcctggccgc cgccccgccc cgcagcggcc agctgctcgt 180
ctgcaaggcc cggaagcagg aagccgccgc ggaccagagc gacgtctcgc gccgcgccgc 240
gctcgcgctc ctgcgcgctc tcacggccgc cgccggcgcc aagggtgggtc ccgcgcgccgc 300
ggcatacgga gaagcagcca acgtgttcgg caagcccaag gcgagcacgg agtacatcgc 360
gtacagcggc gacggcttca agctgctgat tccggtcaag tgggac 406

<210> 15005
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-D11

<400> 15005

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agttactagt gtctcaaattg tttcatcaga gtaccatcgt cagctgcttg aaaataccat 120
gctatgtggg ggcacctcat caatgactgg ctttgaggac aggttccaga gagaagcaaa 180
tctgtctgct tcagcaatct gtccatcact tgtgaagcct cctgaataca tgccccgagaa 240
cctagcaagg tattcggcct ggttgggtgg tgcgatattg gctaaggctg ttttcctca 300
aaaccagcat gtgaccaagg gcgagtatga tgagacgggg ccgtccattg tgcacaagaa 360
gtgcttttag agacaaatgc cttgaactag cacggttggg gcaccatttg ctgctgttc 419

<210> 15006
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-D4

<400> 15006

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gagctacagc ctgccgccgc acgagtgcgg ctacccgggc agcgtcttca acccgctcaa 120
cttcgcgccc acgctcgagg ccaaggagaa ggagctcgcc aacgggaggc tggcgatgct 180
ggcgttcttg ggcttctga tccagcacia cgtcaccggc aagggggcct tcgacaacct 240
gctgcagcac ctgtctgacc catggcacia caccatcatc cagaccttct ccggttgact 300
ccaggtcgag gatgaatacg atccatcgct ggtccgctga catggactgg gagacaagcc 360
ttgaggcctt 370

<210> 15007

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-D5

<400> 15007

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tacgtaagtg ctttaccagc atatgtagtg tagtaaaaaa catggcattg aatcccttca 120
tgcttactat aactagttat ttcggttttc tactgggtgc tttaactata accctagctc 180
tatttattag cttgaacaac atacgtctta tttgaaatga attgaatatc agaactcttc 240
ttttggattc ttggtattct agactctttt ccacactact taccaatttt tttcttggtc 300
attgagattc gtgggtagtt 320

<210> 15008

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-E12

<400> 15008

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gtgtcattgt gaaggagggt ccaggtgca gcctaaggac tcataagggtg tacagtgact 120

tgaatgttga ctacctaaag atgttcctcc taaatgttcc agccaccacc gtagctctgg 180
gactgttctt ttctattgat gaattgactg gttttgagat caatgtgttc cagctgccag 240
agcctttcgg attcattttc acatggtttg ctgctttgcc cctaataattg ttcttagcgc 300
agtcattgac taaggctata gtccaggatt ttttaatcct taaggggcca tgtcctaatt 360
gtggtactga aaacctttcc ttctttggga ctatactgtc agtctccagt ggcgggacaa 420
caaac 425

<210> 15009

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-E2

<400> 15009

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ctcgccgagc ggcaattcag cccccctgct ggattcaagc acaaggtctc cgataaccta 180
caaaggtggg taattgaggt cactggagcg gcgggcaccc tttaacgccg cgagacctac 240
cagttgcagg ttgacttccc tgagcattat cctatggagg cacctcaggt cttttttctc 300
aatccagcgc caatgcaccc acacatctac agcaacgggc acatctgctt acatattttg 360
tatgactcgt ggtctccagc gatgaccg 388

<210> 15010

<211> 263

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-E5

<400> 15010

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tccctcgtc ccaccgccat ctctctccac atcccggctt tcatctctc ctccgtcgtt 120
ggccccggaa tctaccggc ccgctgggccc gctccccgca cgctcccgct ccgcgcgtc 180
ccgccccgtc gcgtcaccgt cctcttgag cagcgccgcg gcggcagccc agggctcggg 240

<210> 15011

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-E7

<400> 15011

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gcggtggggc ccgcgcggcc aagttatcct gttcgctacc gtgatgttta ccctagtcca 120
gagggtttat ctctgttcgt ctcggttggt gttgccatc tgtgtttttg attgcaaggt 180
cgctctgtgt cagtgttag tgctgtgttc atcctcggct ccagcagacc catgcatcaa 240
ccagcatgga ctgtggatcg atggatgctg ttactcctgt caggatttgt tctaagttaa 300
tcctaaggaa aaaatggtgc ttcttggtgc tgcaaaaa 338

<210> 15012

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-E8

<400> 15012

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aaccatggtt ttccacagtc attatagtct caacggtcag cgacctgcct ccgttcgata 120
gacacaatct ataggtaacg tctgccacaa gtatgggtcc accattggcc taccaaacgg 180
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taggaacatg tcaaattatc tgtgttactg atggtgagcg aatcttgga cttgtgagac 300
atgggttgtc aaggaattgg aaatcctgta tgcaaacctg cactatacac tgctcttggc 360
ggaatatgac catcactttg 380

<210> 15013

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-F10

<400> 15013

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ctctgacaca tgctgtcggc aatgtgttga aacgtgtttt tgtcatcggg ttctcaatca 120
ttgttttttg caacaaaatt agcacacaaa ctggaattgg cacgtccatt gccatagctg 180
gtgttgctat gtactcttac attaaggcta agattgaaga ggagaaaagg aaaaagagcg 240
catgactgct gtgaataata ttatcgggac cttcctcgga cacaacatcg tcgacaatca 300
cgacctactt ctataccttg ttttgttttc atcttgagtc agtcgatcca ttgtttgttc 360
ccagtctggg gattaaaagt ctgcaaattc tgtttgtgga attggcaacg atacaaa 417

<210> 15014

<211> 229

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-F3

<400> 15014

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ggagtcatgg ccaccgtcag cgccgccgtg gtgaccacca tcgttgcccc cgccgcgata 120
gccacgcccc atgctctatg gctgcctgcg ctgagggcga cgagcgagag ggtgcggtgc 180
agctacgcca aggacgcggc cgcaactcagc accaagggcg caggcgcggt 229

<210> 15015

<211> 290

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-F4

<400> 15015

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gcggcatccc actcagtgtg tgcaaccatg gctaggggat tgaagaagca cttgaagagg 120
ctcaatgcgc ccaagcattg gatgctcgac aagcttggcg gagcttttgc tccaagcca 180
tcttctggac ctcacaagtc caggagtgct cttcctctga tcctcatcat caggaaacag 240

ctcaagtatg ctctgaacta ccgtgaggtc atttcgatcc tgatgcaacg 290

<210> 15016

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-F6

<400> 15016

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acatcctcgc cacctccagc aacggatacg accccaactt cttctgagcg gtcgctgagg 180
atgtattcta cagacagccg tgtgctgctg tgtgtgcttg tcatgtatcc gatcaaagtt 240
tggttaattt ggacaagtag tgcaactgca gaataattgg tatttgtata gtgcaccatg 300
ccaacatgaa tttgatctgt ctctgtcttc actattcagt taaaaaacag gaaggac 357

<210> 15017

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-F9

<400> 15017

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caaggccttc gtcgtcgctg gcgacgggga cggccacgta gggctcggcg tcaagtgcgc 120
caaggaggta gccaccgcca tccgtggcgc catcatcctg gccaaagtct cggtcgtgcc 180
cgtcaggagg ggctactggg gaaacaagat cggccagccg cacactgtgc cctgcaaggt 240
caccggcaag tgcgggtccg tcaccgtgca catggtgccg gcgccaggga ggtccgggat 300
tgctcgctgcc cgcgtgcca agaaggctct ccagttcgcc ggcattgagg atgtctttac 360
ctcgctccgt ggctccacca agacactcgg taact 395

<210> 15018

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB36-006-Q1-E1-G11

<400> 15018

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cagacgctcg tcctggccat catgacagtc cgctgcgact gggaaaagga ggccttgatc 120
gcgagcacgc gcatgggcaa actgtcggaa gttcggatgat ggcaggatct ggtgctgcac 180
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tttcgcaaaa ttttgcctcg tggaaaagca acgcaagggtg ctcaggaatc agggacacag 300
gtcgccgggg cagctcttga agacgacgga ggangggctt ggtgtggcta tgatgggttt 360
ggtgcttttg cttatgggct.ttatgggtggg aacttcaaata caaatagctt gactgtgggc 420
cctttatctg ggtgtgttt 439

<210> 15019
<211> 281
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-G2

<400> 15019

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gttccgatgg atcaggggaa agagcaaggc gccggacgag gagcggcccg caataataag 180
gagcggcagc agcaggagca ggagcaggag gaggtgctgc tgggtgcacac ccaggtgccg 240
cggatcaaga ccgaggacga ggaggccttc agggagcgcc t 281

<210> 15020
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-H1

<400> 15020

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cggtacagcg gcacagaggt gcgacgtacg acgacgacga cgcaggcgcc acacatggca 120

tcccagctct ccgcccgcgt gccccgggtc cacggcctcc ggggctacgc cgccccagc 180
tccgcgggtgg cagcgtgcc gtccgtgagg gtgggcagga agaggtcgtc gtcgcagggc 240
atccgtgcg actacatcgg ctccgccacc aacctgatca tggtgacgac gacgacgctg 300
atgctgttcg cggggcggtt cgggctggcg ccgtcgggga accgcaaggc gacggggggg 360
ctgaagctgg aggcgcgcga gtccgggct 389

<210> 15021
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-H2

<400> 15021

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cttgtcatag tgggactgca cttgatttgc cttatctctg cagaatgaac aggagtgggc 180
aatatgtatg ggaagatcac cgaccgcgat ctggtgtctg gaaaggcact agtgggtggg 240
aagctagttc ccttagtggg tgtcatgatg atcacagctc tgcagatact cctgcattag 300
catcgatcag 310

<210> 15022
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-H4

<400> 15022

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aagccaaagc tcctctcccg ctgccactaa gttggcactg tccatagctg tgtgcgctgt 120
cttcctgtgt ttgtgatgac cacagccacc aaattcacca caccatagct agaacattct 180
agggagttgc tggcccgat gaagcttggt ccgtaatcat ctcagaacgc gacgaagaag 240
tggaagtcac tgaagagaag acaccaccac cctcggatc tcgggcagga aactgcttct 300
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<210> 15023
 <211> 75
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-006-Q1-E1-H5

 <400> 15023

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 aaaaaaaaaa aaaaaa 75

<210> 15024
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 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-006-Q1-E1-H6

 <400> 15024

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 aagggtgtag agattgtttc atcagtgtat atcatctgtc ccgatggggt ttgttttgtg 120
 cttttcacga ttcatgtgtg aagcacatgt attattagta caagaactgc tagtagatat 180
 ataggcttat aattaagcac gacttctaaa aaaaaaagg cacaaaaaag gaaaaagaaa 240
 agaaaaacaa ccgacagaaa gagacaatgt aagggaaaaa aacgccggag aaagggtgca 300
 gcgggggggaa aaaaaagggg gggccccccc aaaggtttca agcttaagta c 351

<210> 15025
 <211> 403
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-006-Q1-E1-H8

 <400> 15025

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 tgtaggtggc catttggtac aggcgtcggg ctcccaggag gatgaccggt ggcaagaggt 120
 tcggcggcgg gcggggtgcc acggggaccc cgtccctcgc gtggtcgtcc gtcgtcatcg 180
 tcgcctccct cctcgttggc gcctccatcg tccacaacat ctacaagcct gacatgacca 240

ttccacctgt ggaggggtgcc gccggcgggcg gcggccaaga aagctgagct acgaatggct 300
 ggacactgca tgcaagagag gagggctgggc atgggagtag tgagggaccg gccatcagca 360
 cctttttttt ttttgttcta gaacaaaaac gatattatgt tgg 403

<210> 15026

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-006-Q1-E1-H9

<400> 15026

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 gatgccttca gctcaggctt ctagctctca ccagagatg ggctcctgga ccaccgcgcc 180
 tgacttcaac gcaggaggtc ctagcgaatc tatcaagcct tgtcgcctta gatcgtatgt 240
 catgtcattc gatccagata cgcttcagag gtatgcaacg gtcagggtcaa aggaggcctt 300
 tggatatcatc gagaaacaca cagaagcgct atttgggaaa gcagagattg tagtcacacc 360
 tggaggcacg gttggttc 378

<210> 15027

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-A6

<400> 15027

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 ctttggagtg tggccatgtg tgcgatttaa ttgctgggtt gcccttttaa tttatgtttt 180
 ccaatttatg acatgctaag ttaaatacatg tgacttgtct agacttataa aattactaca 240
 tgtttttaat aaatgtgtca agtaactatt atttgttttt gcacctcatg cactgacaaa 300
 ttatgttctt gaaaaataag attaatggga gtagaactta taattagaag ttagaaccat 360
 tggttgggtc gctttgggct tgtgtgtttt acattctatc tttgacatct tgtagaagag 420

gataggatgg tcagtgag

438

<210> 15028

<211> 465

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-A8

<400> 15028

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accagtcaaa aattgagtta ttggaaacga agctcgcaga ggcatggag gaaaacaaga 120
tgtacagagc tcaacagaag agtccgatgc ctgaggggca acctgctggg ggagacggca 180
aggagggcaa tactgacagg attttgcaat tggaaggaga gctaagagat atgaaggaac 240
ggttactgaa catgagcttg cagtatgcag aggtggaggc tcagagggag cggttagtga 300
tggagctcaa agccatgaac aaaggcaggt ggttttagca atgatggaga actgttgcc 360
gacatacaac agacacaggc tgactgacag cacagatggg catgtcatgt gagagcaagc 420
aaagcacatg caactgatgc agcacctgga cctgctaacg ggtgc 465

<210> 15029

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-B10

<400> 15029

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gaccagctag gatcagcgga agcagcaatg gtgatggcgt cgtcagcgcg gctgaggagc 120
tgcagcgccg tgggcgtgcc cagcctgctg gtcctcgtcg cccgggtccg ccgcctggcg 180
ccgttctgcg ccaacgccac cacctctggc cgcgtcacca tgtccgcgga gtggatgcc 240
ggccagccac gccctgccca cctcgacggc tcctctcccg gggacttcgg cttcgattcg 300
ctgggcctcg cgaccgtgcc ggagaacttc cagcgggtca ag 342

<210> 15030

<211> 217

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-007-Q1-E1-B5
 <400> 15030
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 cgcacaaagt tcaacagcaa tcagatacca gaggagatat agaattgtacg tatccaaggc 120
 ccgtaaaaga atggttttctc tgcagcgagg agggctgagg cggcgggtgga aaagaagggc 180
 ggcggctcta gaggatggag gcttaaggta gcggtgc 217

<210> 15031
 <211> 285
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-007-Q1-E1-C1
 <400> 15031
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 cctacctcca aattcccaat tgtcaacctc tcctcagagt tcgagtgacc atgtcggggc 120
 gcggaaaggg cgggaagggg ctgggaaagg gcggcgcgaa gcgtcaccgc aaggtcctcc 180
 gcgacaacat ccagggcatt acgaagccgg cgatccggag gctggcgaga aggggcggcg 240
 tgaagcgcac cccggggctc atctacgagg ataccgcgg cgtgc 285

<210> 15032
 <211> 310
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-007-Q1-E1-C2
 <400> 15032
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 gggatcttag ggcgactccg gatcggctta tccacgtcaa ggtcccggct gcgaacgtca 180
 gctccatctc ctcccacgcc ctctcacca tctgacggca cagcttgccg ctctaggcac 240
 gccattagg tggcatgtca catggctcac tgctgcaata gcggtccatg gccagcccaa 300

gcatagcccc

310

<210> 15033

<211> 484

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-D10

<400> 15033

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aaacatcaca attggaccct tggttgttga tgctctgcgt ccagtgactg atcttccgtt 120
ggatgtacat ctgatgattg tggaacctga gcagcgagtc cccgatttta tcaaggcagg. 180
tgctgatatt gttagtgtcc actgtgaaca gacatcgacc atccatttgc accgaacagt 240
caatcagatt aaaagtctag gagcaaaggc aggagtgtgt ttgaatccag cgactccact 300
cactgcaatt gattatgttc ttgatgttgt tgacctggtg ctgattatgt ctgtgaatcc 360
tgggtttggt ggccagagct ttatcgagag tcaagtaaag aagattgcag aactgagaag 420
gttatgtgca gagaagggag tgaaccctg gattgaggtt gatggtggtg ttggtcccaa 480
aaat 484

<210> 15034

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-D2

<400> 15034

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tcaactgcag gagaaattaa tatcttcaag tgtaacttgt gttcattctg tttcagtcgt 120
cgcaacatcc gtatatgaac ctcttgact atcagctggc tccgatcgtct tctcagttaa 180
ataggttctg agattaggtt aacgatggcc acgtaatttc ggacttgtgt ttgttcaggt 240
ggcagcgcca aatgttccag tttcatgttc atattatata aagagttctt gacattcaga 300
atgtcaccgt aaattcaggt cacgtggcag gtcgttttgg gaggtcgttc tagggga 357

<210> 15035
 <211> 248
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-D9

<400> 15035

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 caaatccat catcttgaat ggtctcttaa gcttgatgat atctcagaat accagaagga 120
 gaaattgttc tctgaacatg acaatctgct gaaacagaga gggcatgttc gtggtcttca 180
 tcaagaagct gagaggcaag atcagcagaa gtttcataat gtgtggggac agctcatgaa 240
 ggaccggg 248

<210> 15036
 <211> 469
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-E2

<400> 15036

gtcgaccag gcggtccgag cgcgccaccg gtggactccc cgggactctc aactctgacc 60
 aggcgagga ctctgacctc cccttgaagg agcggttcta cctgcagccg ctgccgccgg 120
 cggaggcggc ggcgagggta aagacgtcgg cgcaggacat catcaacctc aagccgctca 180
 tgcacaagaa ggcgtggcgg tacgtccaga acgacctccg cctccggggc tcttacctgc 240
 gctacgacct caagaccgtc atcgcttcca agcccaagga ggagaagaag agcctcaagg 300
 agtcaccgg caagctcttc agcaccatcg acgatcttga ccatgccgag aagatcaaga 360
 gcacccctga ggccgagaaa tacttcgcag caaccaaaga tgctcttggc gatgttctcg 420
 ccaagctagg ctagacgcaa tggctaataa tggccatgta atttcggac 469

<210> 15037
 <211> 403
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-007-Q1-E1-E5

<400> 15037

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gaaaagaaag aaagaaaaaa cagagaggaa caccocatct gggtcacgca cgctaaacca 120
ccaacacaga tagtagattg ctgctacgct cttctttcgc ctccaatctg cgaggcaagg 180
cgtctgatcc gctgcagccg tacgtcccta ggagctcacc caccgcgcg aatcgagaac 240
tgactcggtc gccggcagca tgcaaatacat agggcgagcg cgccgagcgg cgtcttgccc 300
tgcccgccct cgaagtagaa ggcgagcatg gcaagcatgg cgatgcgggc gtgcttgatc 360
tcggccagct tgagccgctc gagcttgctg acgtcnggga tgt 403

<210> 15038

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-E9

<400> 15038

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tacaaagttg gaacaatgat tgagatcccc agggcagctc tgggtggctga tgagatagcg 120
gagcaggctg aattcttcgc cttcggaacg aacgacctga cgcagatgac ctttgggtac 180
agcaggggatg atgtggggaa gttcattccc gtctatcttg ctcagggcat cctccaacat 240
gacccttcg aggtcctgga ccagagggga gtgggcgagc tgggtgaagtt tgctacagag 300
aggggcccga cagctaggcc taacctgaac gtgggcattt gtggagaaca cggtgg 356

<210> 15039

<211> 225

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-F2

<400> 15039

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atggactccc ggtgaccatc cgactcctgg accctcgcct ccacgagttc cttccagaag 120
gggaaatcga ggagattgtc ggtgaagtgc ctgctgagac cggagccacg ccagtggagg 180

ccctcgcgcg aagtgaagac cgttcagaag ttcacgctat gcgtg

225

<210> 15040

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-F3

<400> 15040

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ttcgccatga acatgggtgg ggtgtccccg tgcacagtcc ggtgcaagca ctgcagcacg 120
cagctcaccg tgtgccccgg cgagcgcgcc atccagtga ctcaatgctg cggcgtgacg 180
cgtatccggc ggccgcgggg ccagcggccg gcagcggcgc cgcccaccat gggcttcgcg 240
cgcgccccg gcaagaagcg ggccctcgtg atcggcatca cgtacgccgg cacgcggcgt 300
gggctgcagc cagctcaggg gggcgctcaa cgacg 335

<210> 15041

<211> 289

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-F5

<400> 15041

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gttgccaaaa ggacggctcc cttttcctat tgggaattgc gaatttttgt aggaactaat 120
accatgcaca gcaatgcctc gatgccaaga tacagacttt aaatttaatg ttggattaga 180
tgctggaaga gaaacatcct ggtgtatatt gcagtggaat gtactgctgg aatacatgtt 240
tttccgaaca aacgaactgg tcctagtgtc gggatatggcg ggtgccgtg 289

<210> 15042

<211> 266

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-F6

<400> 15042

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cacggggcta ctcgaggaaa gatcttggtg tgagctatgt cacggagaac caattgcaag 120
ttcatatgaa gatcactaga ctgcgggaga ctgtgacggc acatcaggaa aagttgcaaa 180
cagtggcaaa cactgctggt ttgaatcatg aagaatggct tgctaatacg gatcactggg 240
tcgctggtct cctagagacg tttgag 266

<210> 15043

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-F7

<400> 15043

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atggccgtgt acaccaagat ctctctcaag ttccccagga agttctggcc tgaagggaaa 120
ggaagggagt tcttctctca cgccagcagc aggagaggtt actacggagt gtggcaggag 180
ttcgagaagc agtacctga cgccaatgtc ctcttggtca ccgtgaccga cgaggagtcg 240
aggcgcatcg agcagcagtc ggacgagcag accaaggcgg agatcatgca ggtgctgcgg 300
aagatgttcc ccggcaagga cgtcccgagc gccaccgaca tccttgtccc gagatgggtgg 360
tccgacaggt tctacaaggg caccttctcc aactggccag ttggcgctca acgctacgaa 420
tacgatcagc ttagggcacc ggttgggacg gt 452

<210> 15044

<211> 414

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-007-Q1-E1-G1

<400> 15044

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aggatggaat aacaaatcta agcttctaag ttgtgaggat ttgtctgcac ggcaagtgta 120
tgagaagctc ctagaagctg tacaacctta ggaccccgag cgatggagca atgtggtatg 180
cagtatgcgt ctggatatcc tctttcgagg gcatangaga aggtttccat ctatattgtg 240

caacaagtgg agcagaacgt gtcgagacga ggtcgaaaca tggctcaa at gtataactag 300
 accatagcag tatccgggttc attgtttctg tctgtactca gatattgtat cctgtgggtct 360
 caagggaggt ggtttttgtga tttccacatt ctgatccaga ctgtttttgt ggcc 414

<210> 15045

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-G11

<400> 15045

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 agttatctgt ctagatatag tgttttttct atgtatccag acataatgca tatctaaatg 120
 catacaaaa gttatctgtc tagatacata gaaaaaacia tatatctaga aaagccaaag 180
 cattttataa tttgtaatag agggagtata tgattgcttc agaagaaaag gg 232

<210> 15046

<211> 222

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-G12

<400> 15046

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 gtgggagggtg ggatgcagtg aaagacgggc tgcgaacct caacatcagc cagtgcaccg 120
 ccctgacgcc cccggcggtg caggccgtct gcgactccgg tccggcgctg cacagctgcc 180
 ccgagaggca ctccctcaac atccgtgggt gcctcagcct ca 222

<210> 15047

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-G2

<400> 15047

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gccaggcagc catggcgccc accgtgatga tggcctcgtc ggccaccgcc gtcgctccgt 120
 tccaggggct caagtccacc ggcagcctcc ccatcgcccg ccgctcctcc agaagcctcg 180
 gcaacgtcag caacggcgga aggatccggt gcatgcaggt gtggccggcc tacggcaaca 240
 agaagttcga gacgctgtcg tacctgccgc cgctgtcgac ggacgacctg ctgaagcagg 300
 tggactacct gctgcgcaac ggctggatac cctgcctcga gttcagcaag gtcggcttcg 360
 tgtaccgga gaactccacc tccccgtgct actacgacgg ccgctactgg accatgtgga 420
 agctgccatg ttcggctgca acgac 445

<210> 15048

<211> 466

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-G5

<400> 15048

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 gccaggcggg cgcgctcggc gccgcccggc tcgtcgccat cctcagcgtc tgcctcacca 120
 tgtaaggcgt cgcctccttc aacgagggcg actcgccac gccgcccacg ctcatgctca 180
 ccggcaggag gaatgaggcc gacaagctgc agaccgccga cggctggggc aagttcaccg 240
 gacggttcat cttcagtggg atctccggcg tgctctgggc atacttcctc ctctacgtgc 300
 tcgacctccc cgacgacatc aagtacaata caaattcata acgatgcata tatataatat 360
 agctccgctt ccgactcctc tctctgcatg caaaggatg ccatttcagg agtgacgacc 420
 agcgtggata catgcaattc ctctgcacat ggatggattg ggatgt 466

<210> 15049

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-G6

<400> 15049

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gagacgagca ccgcccgcga ggccaccgtc gtcctcggcg tggccccgga gaagaaggcc 180
gcgccccgagt tcgtcgaggc cgcgggcggag tccggcgagg ccgcccacgg ctgcagctgc 240
ggtggcaact gcaagtgcga cccctgcaac tgctgatcac atcgatcgac gaccatggat 300
atgattatta tctatctagc ttgtggtggt ggttgaacag atgtaagcga ggccgagctg 360
gctgccatac atacgtagtg tgtggtgtgt gtgagagaga gag 403

<210> 15050

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-G7

<400> 15050

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gatggaaatg ccgaactggc agcgtctggt ttcctatgc atatgtaatt tcctgcctct 120
ttatattcac tcttgttgtc aagtccaagt ggaaaatctt ggcatattat acatattgta 180
ataataagca tcgtacaatc tgcattgctgt ttgtgaataa ttaattaata tcccagccca 240
ttggatggac ttgtttaata aaaaaaaaaa agataaaatg cataaaaaaa gagaagaata 300
aagtt 305

<210> 15051

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-H2

<400> 15051

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acaggcctca gatagagaag gcgtgttga tcgttcaggc tgacatgaaa gatgcgatgt 180
catccagcac cagcagcagc agccgcccac ggtacataaa ccctaaatat gtatgcggag 240
aggtccagca acatgtttgtg cccgaaaatt gacaccttgc catttcgatg agacaagaca 300
aggcatgtgc ctattgcctt attccaatto ttgagcactg taacactgcc aatatgcaga 360

gtatatgttt tctgctgtt gaggtggata caaatgcatg cttttttttt agtagaaaag 420

agggcggtcg cgg 433

<210> 15052

<211> 225

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-H4

<400> 15052

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caagtgcaga accagactta gttgccaccc aattcggagc ttatcagcgt ccgttataag 120

gtgcgcggaa ctgatctata tgaacctcag agaggaaatag acggtctgac gcgttccccg 180

ggctgcaggg atgtactcag ggacatgggg cacaggggac gtctt 225

<210> 15053

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-H6

<400> 15053

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aagcactggc cgaggctcag ggcctcttct tcatggaaac ctcagctttg gattcgtcga 120

atgttgcagc agcttttcaa actgtggtta aggagatcta cagcatacta agcaggaagg 180

tgtttcagtc actagagcag aagaaaagcg agctgcagtc gctaagcagc gggaaagccg 240

tggtgctgca ggggtggcaa ccaaacaagc agtggtggga ggtggtgctg ttctctgtga 300

cctgacacga ggactgcagc tatggagggc gatcggattg tgagacattt ggggtgtgtaa 360

ccctgtaggt ccgatttgtg aaaagttgct tttcccccat gttcttggtc taaaggtaa 420

ctggcgtggc tgcttgta 438

<210> 15054

<211> 285

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-H7

<400> 15054

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gatctgatta gccgtcattc ttgagatctt ttgttagagt tttcccttct gtagggctaa 120
gaccacgtgc agtttcatta tttctttttg catctgtaga atcgtgaata aatatgatgt 180
agtaatgctg tagctgtttg tatctatctg ctgttttttc cccatgtgaa tgagtgaacc 240
attggcttct gtatttacga aggattcagg tttctaaaag tgaag 285

<210> 15055

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-A8

<400> 15055

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agctgacatc aagaacagat ttgtcctgcc accacacctg acgctcaaga acttcgaagg 120
tctggacctc ggcaaaatgg accaggctgc tgattcaggg ctggcttctt atgtcgccgg 180
ccaagtcgac cgcaccctga gctggaaaga cgtcaagtgg ttgcagacca tcaccacgct 240
gccgatcctc gtcaatggag tgctcagcgc tgaagacacg aggcttgctg tggcgagcgg 300
cgccgogggg at 312

<210> 15056

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-B12

<400> 15056

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ctagggtagc tgagatgact cccacatgga gtaccatgtg acgaatgtca tcctggtgaa 120
cgcgacggcg gagggctcct cgcgcactgc gcacaagtcg gacctgcacc ggatcgccgt 180
catcaaggac gtgatccagc ccatgttcgc ctggtaggac gtgttgcaac ccatcgacat 240

ccatgcactt catctggtgg ctcgagacgt tcgtcacctg caccctgtct aactcgtggt 300
atctcttcaa cctgccagga ctaccacaga gcttttgggc accgct 346

<210> 15057
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-B2

<400> 15057

tcgaccacgc gtccgttaat tttcattttt tttttaacca aagtaaaacc cagtgatttt 60
attcgatgtt atgtacaagg aaattcatta gtactccgta cttcagtaca cagaacctcg 120
aacaaaacat attctgaaca ctccaggtat ttacagcata aaccgcacac accgggttttc 180
attaataagt agaagaggac aagtctaata tgcaaagcag cataggtgca aactaaaaat 240
attaccagat accataaaac gagcttcagc ctacagattat catgctgcaa aacttccaag 300
aaggacacct ggatggtaga tga 323

<210> 15058
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-B5

<400> 15058

taccagtcog gtagttccgg gtggccccac gcgtccgcaa agtacaggaa ggtccaagat 60
gcagcctacg gagtcgaaag gtctacagtg acttgactgt tgactacttc aagatgttgc 120
tcttaaatgt tcccgcagct gttgtagctc tggcactatt cttctttttg gatgatttca 180
cgggatttga aatcacatat cttctcgagt tgccggagcc tttcagtttc atcttcacat 240
ggttcgccgc actgccttta atattttggg tagcgcaggc gatcactaat gtcatagtga 300
aggacttcct gatcttgaat ggtccgtgtc caaactgcgg gaatgaaaac ctctccttct 360
tcggtaccat actgtcagtg cctagcgggtg gtcacaaaaa cagcgtgaaa tgtgcaagct 420
gtggcactga gttggagtac gactcatcaa ccc 453

<210> 15059
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-B7

<400> 15059

gacaaacatt gaaaccttaa gtccctttct ggatcagttt gtgtgtgtta atctatctgg 60
agggtacaga ttcggggccgt gttgcaatgc atgcatggtc tgaaggagc gagggctgag 120
gagtgactgg tatgtacatt agctgaaggg gaggttaagg gtagagatcg tttgatcagt 180
atcatctgta tatcccatg catgggggtt cgttttgtgc gcttacttct ggcttgccag 240
cgtatggttc aatgtggaaa cacatgtatt agtacgagaa ctaatagact tataattaat 300
atagaaggca gagtgggaga gggatgtagg ggaggcgta g 341

<210> 15060
<211> 230
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-B9

<400> 15060

aaagcagctg ctgtacctgg gtatctgcgt cgtctgggtc cctctgggtg acctctatat 60
ggatgtcgtc gtctaataaa catctgtggt ttgtgtgtca tgaatcgtgg ttgtggcttc 120
gttggtttta tggacctgtt gtgtcctctg tgtgtgttac caaaaactct tctgcagcag 180
tatggctcga atccttatga agtttgatgt ttgaacttaa aaaaaacaat 230

<210> 15061
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-C2

<400> 15061

ggtcgacgca cgcgtccgcg cagcggacca gagcgacgtc tcgcgccgcg ccgcgctcgc 60
gctcctcgcc ggcgtcacgg ccgccgccgg cgccaagggtg ggtcctgccg ccgcggcata 120
cggagaagca gccaacgtgt tcggcaagcc caaggcgagc acggagtaca tcgcgtacag 180

cggcgacggc ttcaagctgc tgatcccgtc caagtggaac cccagcaagg agcgggagtt 240
 ccccgggcag gtgctccgct acgaggacaa cttcgacgcc aacagcaatg tgtccgcat 300
 catccagccc acgtccaaga agaccatcgc cgactacggc tctcccgagg agttcctctc 360
 ccaggtcgac tacctgctcg gcaggcaggg ctacggcggc aagaccgacc cgacggcggg 420
 ttcgagaccg gccccgtgg 439

<210> 15062

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-C3

<400> 15062

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 ctgcacgcgc ccagcccgtc accgcttga gaccgcgca gccgcgcttc cctgcgcgcc 180
 gccagccgtc gccgatccgt ggccgcgtcc gcgtccgccg ccgccagccc taacgtcgcg 240
 ccgtcagcca gcccgctctgc cgtcgtgagg tactgatgaa tttttctggt aatcagcatg 300
 gcactgtcat caatgtctac gacaataaat gtgaaagatt tgacctcaa ggtttcagtc 360
 tataccagtgc cgacagagtt atctgggtga ctaaacaatga tagttaggcg ctgggccacg 420

<210> 15063

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-C5

<400> 15063

tacagtccgg agttcgcggy tcgccccacg catccgggaa aaatatgcag agaactgcat 60
 gtacactccc gtctaccgca actaccggtg gtgctgcggg gatcaatddd gcagtaataa 120
 aaatctatca acgcggatgg tactctgttg tttatagtcg ctgctgctaa ccacccttgt 180
 tgctgggtgct gctggagagg cattgtacct gtccatgcat atatgatata tatgttgtaa 240
 cgttgtgaaa gcaaacaatc ttgggtacca atgtttgtta ttctttcgct caa 293

<210> 15064
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-C7

<400> 15064

tccggagttc gcgggtggcc ccacgcgtcc gataaaatcc acggtttaat aacgaaccgt 60
gttaacttac cataacaaca actcaattcc tatcgaattc cttcctatcg aattcctata 120
gtaaaattcc tataggataa aacgtacaca ggggtgtacac attatatatg aatgaaacat 180
attcattaac ttaagcatac tccttttttt atttaatgag ttgatattaa ttaaatatct 240
tttttttttag atttttgcaa aggttttcatt tacgcctaatt ccagatcgag tagaccctgt 300
cgttgtgaga agtcctaatt catgagttgt acggagggac ttatgtcacc acaagcagag 360
accacggcac gtgttgga. 378

<210> 15065
<211> 247
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-C9

<400> 15065

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gcagccgccg ccgccgtgc tcagccgcac gaaacacgac gaatatgccg gcggggcacg 120
ggcttcggtc gcggaccgc aatctgttcg cgcggccgtt ccgaagaag ggttacatcg 180
cgctcaccac gtagctgcgc acctacaacg atcggcgacc acgtcgacgt ctccgtgaac 240
ggcgccg 247

<210> 15066
<211> 165
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-D10

<400> 15066

cccacgcgtc taccacgcg tccgccacg cgtcaggcgt gttgccaggg acagcgggtg 60
cattgtccca tgctctgcaa ttaatactag cctctgact ctgaggctat tcattgtgat 120
actgtcatcg gtgctgcctg ttagcacgca gggctgtccg tgacc 165

<210> 15067
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-D4

<400> 15067

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cagaaggagc tgcgatctga tcgacatggc tgccgccacc atggctatca cctcccgcgc 120
gctcatcggc aagccggcgg ctggcacgag ggacgtcttc ggcgagggcc gcataccat 180
gcgcaagacc gccgccaaagc ccaagccggc ggcgtccggc agcccctggt acggtgccga 240
ccgcgtcctg tacctggggc cgctgtccgg ctgcggcccg agctacctga ccggccagtt 300
ccccgcgact acgggtggga caccgcgggg ctttcggccg acccgagagac cttcgccaag 360
aaccgcgagc tggaggtgat tcagtgccgc tgggccatgc tcggcgcgct cgggtgcttg 420
ttcccgagc tgc 433

<210> 15068
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-D5

<400> 15068

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atgagcagga acctggagag gaatggcagg atcacctgca tgacgtttcc ccgggactgg 120
ctgcggaggg acctgagcgt catcggcttc gggctcatcg gctggatggg gccgtccagc 180
gtcccgcca tcaacggcaa cagcctcacg gggctcttct tctccagcat cggccaggag 240
ctggcccact tccccacgcc ccgcccgtc acctcccagt tctggctgtg gctagtgcg 300
tggcacctgg gcctgttcat cgtgctcacc ttcggccaga tccgattcaa gggcaggacc 360

gaggactact t

371

<210> 15069

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-D7

<400> 15069

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ttttttttga cccataaaat ctttgtgatt tcatatactt tttactcatg aaccctttct 120
ttgggtttctg ctacatttgc aatataagat agttcgtatt cgtgaatgct atgtggccta 180
gagttgttct tgctacaatc tattcagtat ccagcggcgt gtttctcttg gattggattc 240
ctgtgctttg atcattgctg ctgcgcctgg agctcggcct gcgtgataaa gatgccgtgg 300
aagccgtagg ggacgcgcgc gggcagctgc acctcggcga cgatgtccag ctgcgcgcac 360
ctggcgtcca tcaccacgaa ctggttctcg ccggtccgct cgttgtggac gtagcacacc 420
aagtagccgt cgtcctcggt gctattcccc tccacgtcgt c 461

<210> 15070

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-E2

<400> 15070

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attctctacg cttcccagcc atctggttat ctactggaga acccttcggg ctgcgcagtg 120
gctaggcacc ttgcggagag gactaacggt acaaaaactg gcctactgag caaatgtgac 180
ggagagtgcc tagtcaaatc aactcttctt gaaggaacct ttgtcggaat agtgctcctt 240
agcatcttga tatcagggt catgtgtatg atgggaatcg atactccctc caagtttgaa 300
gtcctccagg agtccgtgat ctcccttcga agcagaacct ttgttctgtt tggccgcact 360
gtggatagat 370

<210> 15071
 <211> 257
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-008-Q1-E1-E3

 <400> 15071

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 acctcgatcg agatagtgga cataggatgc cactctttaa aatgaacaaa atgagtaatc 120
 agctgtgaca cgaaagaacg cgaatccttt tgtagctcgt cagttattgg caaaaatcga 180
 aaagggtcaat atgacggagg agagagagat aatagtaacg tgggtcccggg catcgagcat 240
 tctagccgca atgggttg 257

<210> 15072
 <211> 251
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-008-Q1-E1-E5

 <400> 15072

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 gacgccggtc aactccaacc cgctcgtcac gtggtagctc tgcaagctcc cggcctagcg 120
 caccgccgtg agcccgtgc tgcggggcgt ccaggtcggc ctgcgcacg gcgacctcct 180
 gcgtggggcc ttgcgcgcca acggcccgt cctcagcaac gcccgtgcac ggccaggccg 240
 gcgcgctcgg c 251

<210> 15073
 <211> 64
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-008-Q1-E1-F3

 <400> 15073

 tcccagagtc gaccacgcc gtccggcgca actttgcgtg cggatcgggt tcatgttatg 60
 acat 64

<210> 15074
 <211> 262
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-008-Q1-E1-F5

 <400> 15074

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 ccccttcttc tacgtcgctc gctcgcgcc tgcgccagca gctctgccat ggccccgaag 120
 aatgataagg cccgcgcgcg gtcgtccaag ccggccaaat ccggaggcgg gaagcagagt 180
 aagaagatct ggagcacggg taagcaaaag gagaaggcca acaacgctct gctcttccga 240
 ccaggccacc tatgacaagt gg 262

<210> 15075
 <211> 269
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-008-Q1-E1-F6

 <400> 15075

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 cctatcttgt ccgcaactac atccactcgc tttggttcgt cgacaacca ctcaacggcg 120
 acgtgctcaa ggtctctgac atcatgtacg cgcggccgag ccacgtccg gcgatgacgc 180
 ttcgtagctc aggcgaccga tcgagcgtag tcgttctcgc aaaactcgcg ctatcagatg 240
 aactagaccg tcgagagcat ggcattggt 269

<210> 15076
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-008-Q1-E1-G1

 <400> 15076

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 aggaggaaga ggaagaagaa gcggcagcga gcgaggatgc cgtgcctgaa cgtgtcgacc 120
 aacgtgaacc tggagggggg ggacacctcc gccatctcgc ccgaagcctc caagtccgctc 180

gccaacatca tcggcaagcc cgaggcctac gtgatggttg ttctcaaggg ttcggtgcct 240
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ctgaaccctg atgtgaacaa gaagcttagt gctggcatcg cttctatcct ggagtcaaag 360
ctgtctgttc ccaagtcacg cctctacctc aagttccatg actccaagcg ctcggacttc 420
gg 422

<210> 15077
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-G3

<400> 15077

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cgccgccgcc atcgacgcc cgcagccgca tccgctatgg gtgcgtacaa gtacgtctcg 120
gagctatggc ggaggaagca gtccgatgtg atgcggttcg tgcagcgcgt gcgctgctgg 180
gagtacaggc agcagccggc catcgctccg ctcacaaggc ccaactcgcc tgacaaggcg 240
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ggtggcaaga agaggcctgt gcctaaaggt attgtcgatg gcaagccaga gcaccagggt 360
atcaccagc tcaagttcca caggaacaca gagtctgttg ctgacgagag ggct 414

<210> 15078
<211> 121
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-G6

<400> 15078

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ctagtcgatc ttcttccct cctcaaggaa taaaagaagc tgaacctgg ggaagagaaa 120
g 121

<210> 15079
<211> 276

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-G8

<400> 15079

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 tttggcgcaa ttgcgcgata tgcccaactgc atttgttcag atgtagtgcc gcatagctgc 180
 acgcaagttc ttgtttcttct gtgatcgaca cagacggggg aaagcatgca gtaaagaaag 240
 tgttgctgag cagttgtctt cgggagctaa ttggaa 276

<210> 15080
 <211> 384
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-H11

<400> 15080

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 ctgcacagcc ggtcggcggt ctccatgaac ttcacgcggc gcatccgggg gtccgcgaag 120
 aacccctga taaccaggaa gctggagagg aatggtagga tgacctgcat gacgtttccc 180
 cgggactggc tgccgagggg cctgagcgtc atgtggttcg ggctcagctg ctggatcggg 240
 ccgtccatcg tctcgggtcat caacgacgac aggctcacag ggctcatcgt cacgaacatc 300
 ggacacgagc tggccacct caccacaccg tcgacagtga tatcccagtt ctggctgtgg 360
 gcaatgacct tgcacctggg cctg 384

<210> 15081
 <211> 227
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-H3

<400> 15081

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 tttctacgtt ttgtacctgt cctctggggc cgaatggcca gtgactgtaa tagcacctaa 120

gtgcccgaga ctggttaagac aaggggtatt cagacaatca agaaaccacg gtgcggtga 180
ggcctgaggc agtcctctcc gtcgttcacc cacaacaagt caaaagt 227

<210> 15082
<211> 235
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-A8

<400> 15082

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ccaaagatcc atccagtga agaggaagca ctacttgtgt acatcacatt aagttacaaa 120
taccaattaa caatagaat cgcgcgaaag ggaaagggaa aaaaaagcca ggggaaaaaa 180
ggaataataa agccaacaat tcaagggtgg gtacaatgaa tggttgggga aaacc 235

<210> 15083
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-B10

<400> 15083

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ggcgcatcgt ggcccgggtc gggttcgggt tgggcggcaa ggcaagcct gctccgaaga 180
aggtggcgaa gacatcgacc tcctctgacc ggccgctgtg gttccccggc gccgtggcg 240
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agcccggtga gtacctgcag ttcgagttgg actcgtgga ccagaacctg gccagaatg 360
aggccggcgg catcatcggc aaccggttcg agtcctccga agtcaagtcc accccgttgc 420
agccctacag cgagggtgtc ggc 443

<210> 15084
<211> 456
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-B9

<400> 15084

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cggcaaggcc gttatcctcc tccagggccg ctccgccggc aggaaggcag ttatcgtgcg 180
cgtgttcgag gagggcaccc gcgaccgccc ctatggccac tgcctcgtcg caggcctcgc 240
caagtacca aagaagggtga tccgcaaggga ctccgccaaag aagactgcga agaagtcgcg 300
cgtcaagtgc ttcatcaagc tcgtcaactt cactcacctc atgcccaccc gctacaccct 360
cgacgtcgat ttcaaggatg tcgccaccgg tgggcccgcac gcactctcta cccacgacaa 420
gaaggtcgcc gcctgcaaga cggccaaagc gcgcct 456

<210> 15085

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-C1

<400> 15085

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tgagaaagaa gcatgaggcc ccaggtgctg ctcgtcgcac tggcgtctt cgcgtcttc 180
gtagctctgc cactgggcaa agcgcacgag gaggaggagg aggaagggt tgaactcgaa 240
gccagcagga ggcggtggcc gtgctgcgac cagtgcggca tttgcaccag gtcgcagccg 300
ccgatatgcg agtgcacgga cacatcgacg accggctgcc accggcttg caacgcgtgc 360
gccc 364

<210> 15086

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-C10

<400> 15086

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 gccccgccat catcgcccc gcacccgaca ttctaccctt cgcgcacctt ccttcggctc 120
 caccctctcc caccctcgct atgcccctgc ctccgtgaca cccgtgccca gccccaccac 180
 ccccggaat ctcccatgct ccccatcaa cgctccctcc tcacatttcc cgcacaccga 240
 gacaaatccg tccacgctat ggtttgatt cgtggatgga gcccgagggt agatccagca 300
 ggagaaggaa gatagaggag gagagggaat gggtggcggg cctatcagac atggatggcc 360
 gccaccgtcg cagagtcgga cgacgctggt agcggcggcg gctgtgggtg cggcgagcgg 420
 atgaagctac tattcaacct ggcggggcgc a 451

<210> 15087
 <211> 426
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB36-009-Q1-E1-C11
 <400> 15087

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 agacttgctg tacaataact tgagtggccc gataccaaaa acgtctgcaa gaacgctcaa 180
 catagccggg aatcctctca tctgtgctgc agaacaggat tgtgacagta ccaagctgaa 240
 accgatgctg gattcctata tcgctggtga acagtaggag cccaagttg ggagtcgggt 300
 accttgctaa ggagtatgta cctaacgaac ctcggtgcc gtttggtttc acanaatgta 360
 atgtaaataa taataattaa cactcgtgtg acaacaataa taagtttgag taagttggta 420
 tcaaaa 426

<210> 15088
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-009-Q1-E1-C12
 <400> 15088

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 aaggttcttc agaactacaa aaatcttcag gatattattg ctatcttggg tatggatgag 120
 ctcaagtgagg atgacaagtt gacggtcgct cgtgcaagaa agattcagcg tttcctgagc 180
 cagcctttcc atgtcgtga agttttcaca ggtgctccag ggaagtatgt ggagctgaag 240
 gaaagtgtga agagtttcca ggggtgtttg gatggcaagt atgatgacct ccctgagcag 300
 tcattctaca tggttggagg cattgaggaa gtcattgcta aggccgagaa aatcgccaag 360
 gagtctgctt cataaggagg cttcttgctt gttgaatcct gtacaatcaa gttccatttt 420
 tggatttt 428

<210> 15089
 <211> 439
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB36-009-Q1-E1-C9
 <400> 15089

ggggtccacc acgcgtccgg agatgggtgtc atccaagaaa gtgtgcgtgg tcggcgctgg 60
 cgtgtcgggg ctggcgtgtg cccgcgagct gctccgcgag ggccacgacg tgacgggtcat 120
 ggagcagagc ggcggcgtcg gcgggcagtg gctgtacgac ccgagggcgg acggcggcga 180
 cccactcggc gctgccggcg cgcatagcag catgtacgcc tccgtccggc tcatcagccc 240
 gagggagctc acgggcttct ccgacttccc cttcttcccc agagacgacg gcaccggcga 300
 ctcccggcgg gtaccggggc acgctgagtt cctgaggtac atcanggact tctgcgacgc 360
 gttcgggctc atggacgtcg tcaggctcaa caccaaggct ctgcgcgtcc gcctgccggc 420
 gccgcgtgcc gctgatgac 439

<210> 15090
 <211> 450
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-009-Q1-E1-D9
 <400> 15090

ggtccaccca cgcgtccgga gttccaggcc tacacgtga agcggataag ggaccccaac 60

ttcaaggtga cgccccagcc gccgctgtcc aaggagttcg ccgacgagaa caagcccgcc 120
 ggactggtca agctgaaccc ggcgagcgag taccgcgccg gcctggaaga cacgctcatc 180
 ctcaccatga agggcatcgc cgccggcatg cagaacactg gctaggcggc ttctcttcac 240
 tcacctgcag agtgcaccgc aataatcagc ttccggatgg tggcgttttg tcagttttgg 300
 atggaaatgc cgaactggca gcgtctgttt tccctatgca tatgtaattt cctgcctctt 360
 tatattcact cttgttgtca agtccaagtg gaaaatcttg gcatattata catattgtaa 420
 taataagcat cgtacaatct gcatgctgtt 450

<210> 15091

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-E10

<400> 15091

ggggtccaccg acgcgtccgg aaggaggtcc ttcaccgtgc gtgcctctct ccgcaaggcc 60
 actgccaccg ccgccgtggc cgttgccgcc agcgtcctgc ttgccggcgg cggcgccatg 120
 gcccaggagg tgctgctggg cgcaggcgac ggccgggctcg tcttcgagcc cagccagttc 180
 accgtcaagg ccggcgacac catcaccttc aagaacaacg ccggcttccc gcacaacgtc 240
 gtgttcgacg aagacgatgt gccgagcggc gtcgacgcct ccaagatctc gcaggaggag 300
 tacctcaacg cgccaggcga gacctactcc gtcaccctca ccgtgccggg cacctacggc 360
 ttctactgcg agccgcacca aggagcatga atggtcggca agatcacagt caactaaagc 420
 tagctatcca ttccatgcat ctcgatctg 449

<210> 15092

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-E12

<400> 15092

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 ggcagccatg gcgcccaccg tgatgatggc ctcgtcggcc accgccgtcg ctccgttcca 120

ggggctcaag tccaccgcca gcctcccat cgcccgccgc tctccagaa gcctcggcaa 180
 cgtcagcaac ggtggaagga tccggtgcat gcaggtgtgg ccggcctacg gcaacaagaa 240
 gtccgagacg ctgtcgtacc tgccgccgct gtcgacggac gacctgtga agcaggtgga 300
 ctacctgtg cgcaacggct ggataccctg cctcgagttc agcaaggctg gcttcgtgta 360
 tcgcgagaac tccacctccc cgtgctacta cgacggccgc tactggacca tgtggaagct 420
 gcccatgttc ggctgcaacg acgccaccca 450

<210> 15093

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-E3

<400> 15093

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 tctcgtcag ctctggcggg ggccgctcag ggctgccgc cctcggccg ccgcgcctcc 180
 tccttcgtg tcgtctgtc caagaagaag atcaagaccg acaagcccta cgggattggg 240
 ggtggcctga ccgtcgacgt cgacgccaac gggagaaagg gcaagggcaa gggcgtgtac 300
 cagttcgtc acaagtacgg cgcgaacgtc gacggataca gcccaatcta caacgaggat 360
 gactggctc ccaccggcga cgtctaagtc ggtgggacca ctgggctttt gatctgggcc 420
 gtcaccctcg ctggga 436

<210> 15094

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-F5

<400> 15094

gctctgccct ctggcaaat ctggtgacca aattgtgggt gaccaaacta ttttgcattg 60
 gcctacttcg tcaaaacaac acgcgtagat cagtagaata tacaactaat acataaataa 120
 ataattacat catgggtgac aattcagtcg ataagtgacg accgtgtgaa cagaacagca 180

ttccccggatt acacagttaa cagagctcgt gctctttctc agctaacagc acgcacatta 240
cacgttgaca caaaccggtt caaattagct tcgcctcttc aaaccaatcc tgaaccgagt 300
caacaaaaat gccacacctt gggctgatca ccccaagatg cccgacaa 348

<210> 15095

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-G1

<400> 15095

gggtcgagcc acgcgtccgg acaaacgcaa cgtgatcagc gtcacaccct tccgtacgat 60
acacagactg aagtgtctaa ctgacgcagg tcgcctcgca gtggcaactg ccgatcgatg 120
caacacataa tcagcgcttg cagtctgcct cagacacagc gggccgcccgc gctcctgccca 180
ctgaggcgat cgctcaggcg ccttccagtc tcagcatgtg cgccgcccgc gctgcgattg 240
gtactcagga ggagatgcta agaagaggat aagcatcagc aataggccga tgagggaagc 300
agccctgaca atcaggagca gg 322

<210> 15096

<211> 193

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-G6

<400> 15096

cagacgcgtg ggtttttttt tgataaaatt ttctatatgc catatcaatt aagtacatta 60
catttaaaag acttatgcat aacgaaaaca ccaagcccgc cattattaat ccaagtccac 120
aattccgaaa ttggaaagaa ggatcttcaa ttgctgaaca aaatcagagc ctgttgcgta 180
ctctgttagc aac 193

<210> 15097

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-H2

<400> 15097

aagcaagcaa gcagcgagta catacact aggcagccag gcagccatgg cgcccaccgt 60
gatgatggcc tcgtcggcca ccgccgtcgc tccgttccag gggctcaagt ccaccgccag 120
cctccccatc gcccgccgct cctccagaag cctcggcaac gtcagcaacg gcggaaggat 180
ccggtgcatg caggtgtggc cggcctacgg caacaagaag ttcgagacgc tgcgtacct 240
gccgccgctg tcgacggacg acctgctgaa gcaggtgggc tacctgctgc gcaacggctg 300
gataccctgc ctgagttca gcaagggcgg ctctgtgtac cgcgagaact ccacctcccc 360
gtgctactac gacggccgct actgga 386

<210> 15098

<211> 248

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-H3

<400> 15098

gagttataca aaggtttcat caagtttctt aaagtacagc agagcttcca tttcctacat 60
gaccagatag ccctagcaaa gcatgcagct cctacaccaa aagccatcca tgtttcccca 120
cgtactatcc aagcgccagc tcggcagcag caatatatat gcacagtga agcaggtgaa 180
caagcgagc tagtagtagc cgatgtcctt gtcgtccgag aagaggttcc cgttgatgag 240
ctcgcggt 248

<210> 15099

<211> 465

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-A10

<400> 15099

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cgcgtccgcc caccggtccg cctacgcgtc cgcaagcaag caagcaagca gcgagtacat 120
acatactagg cagccaggca gccatggcgc ccaccgtgat gatggcctcg tcggccaccg 180
ccgtctctcc gttcgacggg ctcaagtcca tcgccagcct ccccgtcgcc cgccgctcct 240

ccagaagcct cggcaacgtc agcatcggcg gtacgatccg gtgcatgcag gtgtggccgg 300
cctacggcaa caagaagttc gagacgctgt cgtacctgcc gccgctgtcg acggacgacc 360
tgctgaagca cgtggactac gtgctgcgca acggctggat accctgctc gagttcagca 420
atgtcggctt cgtgtaccgc gagaactcag ctccccgtgc tacta 465

<210> 15100

<211> 207

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-A11

<400> 15100

tcgacccacg cgtacgctca catcttgcca ctcgctcgct cgatggtaac ttaccttcca 60
cgaatcgcaa cgcctatggt catgtcgacg catgcttcca tctccacgcg ctatctgctg 120
tccgccgcat gtgcgcccgg ttcaacgact cagcagctta gcaactgagtt cgcgctgtcc 180
ttgccgtcca cccgattgtc ggtccccg 207

<210> 15101

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-A4

<400> 15101

tgattcttga agagatcgag cttcttttgc accacaaggt cgaggatgtc ttgcaactgc 60
ggatcaagct gcggctgcgg ctcaagctgc aagtgcggca agaagtaccc tgacctggag 120
gagacgagca ccgccgcgca ggccaccgtc gtctctggcg tggccccgga gaagaacgcc 180
gcgcccagat tcgtcgaggc cgcggcggag tccggcgagg ccgcacacgg ctgcagctgc 240
ggtggcaact gcaagtgcga cccctgcaac tgctgatcac atccatcgac gaccatggat 300
atgattatta tctatctagc ttgt 324

<210> 15102

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-B12

<400> 15102

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tcgtctatat agccttggtg tgcattgcaag tcacgaaca tgcagcttct tggatgcaat 120
aattgttttg aacctagttg tgtagaacct tgtggttttag gttgctaggt gccacaaga 180
tatgtattat tcgtcagata agagttttct agcatcaggt tcattttgta tctggttatt 240
gtcatattgc agtttttggg gatgggatag tcaacacagg tgtattctca gtttgaaaaa 300
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagaaaa 359

<210> 15103

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-B6

<400> 15103

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tacatgtata catatttttt tgcaaaaaat aatgagtatt caattaaata ctgaataccc 120
ttatttgcac ccttacttgc atgtaagtcc gccttaatta agacgacata gcatctaacg 180
accatcgcat ttttatatta gttacaacat actacaagta caccatgcat cgcaccacga 240
gcatttcac atcatcatca tcacgttga cagtctaccc agtagtcagc cccaacata 300
aacaaaaagt tccagatcgg ccatcaaacc ctaaaatgca tgcattg 346

<210> 15104

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-B9

<400> 15104

aaggacaca ttgattcaca tgcttgatga ggtcgtaagg aattgagaag atgatgtaag 60
ttcttgaata tgagcgtaat atcttctacc ctacgagcat attgagatgg tctctcaact 120
aatatatctg ccagctccaa aatatgcaat tgaagctctc tgttgagggt cctaagctcc 180

ttcttgaagt caatattggg accctttgga taaagctgac ggacattatg actctccaag 240
 cttggaatca caacatctcc tgtgtaatca acacccaagg ctttgaatgg ttcattcaatt 300
 ggtggtggac gttctggtgc agatgatgga tcttgcctcaa attttttac 349

<210> 15105

<211> 239

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-C1

<400> 15105

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 ccggttggcg tcaacctgat ctggtcttaa gaaccccggt ggcgacttga catatgcaac 120
 ggttaagtgc tacatatgtc ctgtgattga cgattctcag ctgactacaa tccattccga 180
 tcgccgtacc ttcgtgggta tgaatacttg gtcactgccc taaacgtacc aatccaatc 239

<210> 15106

<211> 187

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-C8

<400> 15106

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 aacccttctc agaacaaccc cctcccagaa aaaaaacaaa ggaagaagtt tgtgtccagg 120
 tttcagaatc ccctgtctgt aattaccatt ttgcatgaca ataatgagat actgtagata 180
 ttaataa 187

<210> 15107

<211> 211

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-C9

<400> 15107

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gtggtccgag ctgaaaggcc gagactcgaa gacagttcgt gtgatgcgtt cttaatcgac 120
 tgagggctaa cgaatgtgac gtactggat atgtacatta attgaagtgg aggctataaa 180
 ggggtgtagag attgtttcat cagtaaagaa t 211

<210> 15108

<211> 465

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-D1

<400> 15108

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 ggcctcgctc gccgccgtct ccgtgaagcc cgtggccatc aagggctctcg ccggcagctc 120
 catctccgga aggaagctcg ccgtcgccag gccgtcggcc cgctccatcc gcaggccccg 180
 cgcagccgcc gtggtggcca agtacggcga caagagcgtc tactttgacc tcgacgacat 240
 cggcaacacc accggacagt gggacctcta cggctctgac gcgccctcgc cctacaaccc 300
 gttacagagc aagttcttcg agacgttccg ggctccttca acaacagaag tctgctgccc 360
 aagttcctgc tgctgggcgg cggtaagtc tggcctacgt tagcgcgtcc gcgtcacggg 420
 cctcctgccc ataactaggg gactcaggaa ccgccgaacc ggggc 465

<210> 15109

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-D2

<400> 15109

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 aaggaaactc atgttcaaga aggacacatg agtatccgag aaaaaactcc tcaaactctg 120
 gaatagcctc gatggttcca gacggcgaac gaacgggggtg aggaaaagaa cccaccgggc 180
 tgctgtccat tgctcctaga agcatcgtgt cgtggatcgg ctttcgccgt gctccaactc 240
 ggctgggtca tgccccgtag ccccgactcc ccatctgccg cctccacctc atggggccacc 300
 ggggccaccc tcgccttcaa acttggcgac atctttaacg ttggtgggag ac 352

<210> 15110

<211> 80

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-010-Q1-E1-D3

<400> 15110

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gctaagctcc atcctaaagc 80

<210> 15111

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-E2

<400> 15111

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taatctgtta ttcaacttac aagagatgtg ttaggggtcaa atacgatatt tgtactctcg 120

cgattgccat gccggtgcct gtaaaaacgt tgcgggtttgt ttgccacggt gaatgcttgt 180

gttcctttgt cagctggatt tgtcatcagc tcataggaaa agaaaagaac ttgtaaggtc 240

cagtgggcct gacgagccct tcaatttttt ttgttcactt tgcagcctga atcctaacag 300

gcgagaattt catctgaact gtgatattac acagaactct tggtttctag agactaattt 360

tagtccttcc attttaaaaa aaattgggtta caag 394

<210> 15112

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-F1

<400> 15112

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gcgatctgct gtacggcgat gcagtcctcc ttggatattt ttatctgata atggatgtaa 120

tatgggttcgg aaaatatccg ttcggatcat gattcaaaga tggatgaacat tgggttcagat 180
 ggaatttttcg gatatccgga ctttttttcgg ataacggata ctaataactaa tatttttggtc 240
 ggatatacgaa ttcgaatata atatgtctga cattcgctcgg atatcgaata tctggatatt 300
 ttctcggata aatc 314

<210> 15113

<211> 76

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-F10

<400> 15113

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gaaggttatg ggccgc 76

<210> 15114

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-G1

<400> 15114

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cctcaatgag ctcaccggca agctcttcag caccatcgag gatcttgacc atgccgcgaa 120

gatcaagagc acccctgagg ccgagaaata cttcgcagca atcaaagatg cgcgtggcga 180

tgttctcgcc aagctaggct agacgcaatg gctaataatg gccatgtaat ttcggacttg 240

tgtttgttca tatggacccg gcaaggcaat gtaccagttt ctgttgatat tgtatcagga 300

agcacttaac tacaatgcta acctgagtc ttgacaaatt gctgt 345

<210> 15115

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-G12

<400> 15115

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 aaaggaaagc tctatcacga cgaccaccag gtacgctaga tgattatgtg aattggaggg 120
 catggatcag gatggatcac aacgtggctt tgatgaacc atctctatag ggacgactta 180
 atcaagtgtc aggattgttg atgctcacca agcggacgtc atctaaccac actaacctaa 240
 tgttatccca ggttagaatt ttgttctgtt gtggatgctg ctaagtgccg gtgggctcgg 300
 ccttcttata taagtatc gcactcttag cttctttatt gaagattgtc acttaactta 360
 gcactgtagt taaaacttag aactgtttta tacattcaaa ttgcaatcgt ttgaatcaat 420
 tt 422

<210> 15116

<211> 190

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-G6

<400> 15116

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 ccggatcaat cgcccaatgt gaatgtaata agcaatatca ttttctacca cttttcattc 120
 ctaacgctga gctttttatg tactatatct tatatgatga ataataatat gaccgccttg 180
 tgatctaaag 190

<210> 15117

<211> 338

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-011-Q1-E1-A10

<400> 15117

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 ggacacaggc actcctttgt ctggtagaga cgaggagggg aaatggaggg attcgaggat 120
 acaagggatg gcaactgagg atgcataagt cccctgcctc cttgtctca acatgttctc 180
 ctctgcgagc ccagtcagct tggggagcta agtatcagaa tcctgaagga ttcaagccgg 240
 ctttgccta ctagtgtcta gaagtctctg tcgtgagatc ctggggctcc tcctatttct 300

agaagggatg acgtggcatc aacaataact tcgctggg

338

<210> 15118

<211> 219

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q1-E1-A11

<400> 15118

tcactcccta aagtaagtcg tattaattag taccactccc gatcgagagt ccttcgtatc 60

tagaggcgta taacctacgc ttgctgatcc gcctcatgca tcttagtcta caagtgttcg 120

gaatgggtct gtgtagaatg ctgctctaga ggatggtaaa gcctcaggcg tggtcacatc 180

ctacaaccgc gatttcactt gtcataaagt ggggtgattc 219

<210> 15119

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q1-E1-B12

<400> 15119

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agcagcacca tggccctctc ctccacggcc ttcgccggca aggccgtgaa cgtgccgtcg 120

tcgtccgcct tcggcgaggc ccgcgtgacg atgcgcaaga cggcggggaa ggccaagccg 180

gcgggcggcgt ccgggagccc gtggtacggc cccgaccgcg tgctgtacct gggcccactg 240

tccggcgagc cgccgagcta cctgacgggc gagttcccgg gcgactacgg ctgggacacc 300

gcggggctgt cggcggaccc ggagacgttc gccagaacc gggagctgga ggtgatccac 360

tctcgtggg ccatgctggg cgcgctcggc tgcgtcgtcc cggaggtggt cgcccgg 417

<210> 15120

<211> 69

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q1-E1-C9

<400> 15120

tcgccacacc ctaaagtgag tcgtattaaa tactgccact ctctaccgtg agtcgtatca 60

ggccggggg 69

<210> 15121

<211> 65

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q1-E1-D11

<400> 15121

cgttggtcgt cgtcactccc tgtagtgagt cgtattaatt gctacctctc tctattttgc 60

gtcgt 65

<210> 15122

<211> 485

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-011-Q2-E2-A4

<400> 15122

tcggctatcc agggtcgacc acgcgtccgc ggtagcgtgg gtggacacct tcatacagcac 60

cctcaacgag ctctactgca gcacacttgc agcacactgt agcacacata caccaccagc 120

aaacactctt gacgacactt cctccttcac gacattcatc atgacccatt ccacatcaca 180

cagcaagagg cgcaccagga ccgcacactc gaggaaacca tggtcctggc tgggcttgac 240

cacagctgcc ctcttcatga cctcgtctcc tctctggcc gccgcagcgc cgtcatcacg 300

gctggtcaag cgcgccccgg tcgagtacat tgccgactcg gaaccgacga tcgagctcac 360

gtttgaggcc aatgactcgt actaccttca agccctgacc ctcaaccaat gtcagaacca 420

gctcgtcctg cncgagaacg ggacgcatgg tcgctcttac tacgccatcg acacgccaga 480

gattg 485

<210> 15123

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-B10

<400> 15123

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catgacgcaa ctcccacgcc ccccttcggg cttctcatgc cgatgcgtta ggcgcggcat 120
tgatgaaaac tacgatgggtg tcatttacca gtacgectca agctcctatg ttaaagaagg 180
atatatcgaa ccagagccg tgatctatcc taccgatgac gaggacgtct tcaaggccat 240
cgagtacgcg agaaccaacg atgtctgaat cgcgatccgt accggcggcc acagctactg 300
cggctcttcc tcgaccaaag gtgccaacat ccagctggac ctgtcgccga cctacacaga 360
ctttcactgg g 371

<210> 15124

<211> 485

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-B11

<400> 15124

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cgaccacgcg ggcctgagca tgtcaggggt cgtctttgct tcaagcgctt catttagcgc 120
tttttggtgc aacaaccacc ggacttggtc aaactgtgta caaggaaagc caggcatatc 180
cagaaaggac aaactactga cagcctgggtg attatcgccc ccacttagta ctacacgaaa 240
aagtctcttg caagatatac atatctcgga tgacttacc taccacagg agttcgctc 300
aagattcgca tgcgaaactt aagtcctcgc cagcagggtc aggagtcaac tctatcaaga 360
caaactcact ttctgcacat ggaggacaga gcgacaacat ggacctgata ttttcagat 420
tgcagaacga gctcctgcgc tcacaggaga cctatgctga tcttgggttt ttaaagcagg 480
gatta 485

<210> 15125

<211> 474

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-011-Q2-E2-B12

<400> 15125

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gccctaacaa gagcgggtgcg tcctcgagtg ctaagcattc aatcgcatat tgtttctggt 120
tactgtggga acaaagcggc gacatttccg ctgcagctgc ttggattcga tgttgatgtc 180
atgaacaccg tcagcttctc caatcacact ggatatccgt cgtggacagg cgaaaaggca 240
acaggcgaac aacttaccaa gctctttgaa gggcttgagg cgaatggcct cgtagagtac 300
acacacattt tgactgggta tattggtagt gccagaatc tgacagctgt tacagagatt 360
atttcccagc tgaaggcaca gagcaatccg ttctttgttc tagatcctgt catgggcat 420
aacggacaac tttatgttca accagatgtg attccaattt acanggagct tatg 474

<210> 15126

<211> 476

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-B4

<400> 15126

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tcctcctggt gcccaacctg tctccataaa gagctcggtc cgtatcctga acagtctgtt 120
caaccagaaa gtgaccaaga accaccgcca tgtctgaaaa gatcgaagac gccagacca 180
agggtaagct cgaggctgaa gaggtgtcc accacgagca cgccgatgag atctcgccc 240
agctcgaggc cctcctccag accgacccca agcagggttt gtccacggag gaggccgcca 300
agcgtcttgc ccagttcggc cccaacgagc tggctgaggt caagcgcaac cccttcctca 360
agttcctgag ctacttcact ggagccatcg cctactttat tgaggcccc tgcaccattt 420
ccgccgttgt caacgactgg ctcgatttcg gtattattct cgggctgttg cttgtc 476

<210> 15127

<211> 480

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-B5

<400> 15127

gggactcgtg gttcgtcgca atactctata gtgagtcgta tcacacacgc acaccaaaac 60
 gtatacacac agcacacaca cacaccctct ctctttctctc tgcttattct ctggcaacca 120
 accagaccaa caatccattt ctcagaaccc tcctatcttc attctcatta tcaaaccatg 180
 actacactcg cccactccg gacgtccttc ggaccccatg ctcagccac ggcgaccaag 240
 gccgtccagt cgctcttcaa caccctccac cataccacct atgcctctca taagcgcttc 300
 ctggcactct cgtaccactc gacggccacg accggctttg cgcgaccctg ctcgatectc 360
 accccggcct cgacgatccg ataccgtaa gaggccagca gcatgcagct tcacagcaa 420
 cagcaacaac aacaacaaca acaacgtcaa cagagccaac gacgagccct ctcgttggtt 480

<210> 15128

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-C11

<400> 15128

tgctatcctt ttctttcccg ttctacagcc gtctggtcgc ccacgtccgc ccttgccacc 60
 acccgagcc ttctctgtcc ccgactgct gccacagcc ttcgacgcaa aactcaggtc 120
 ccttgtaagg gctcagcgt agtggatata cagctacact cccacactct acatccaata 180
 cagcttcttc acaggcgaac tggctgcaaa cacttgctct agatgtcaac ctcgctggag 240
 ataacaccgt ttgtgaggcg ccctgctcct ggcaaggcgg gtaagcctat tgccatccgc 300
 tccaactttt tcgaagtcct gcaactcccg gacatcacag tgcactacta cgacgtaacg 360
 attacgccag acgttccacc tccagtgaac cgcaagggtg ttacgcaact tctggaaacc 420
 taccgcgact ctg 433

<210> 15129

<211> 476

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-011-Q2-E2-C12

<400> 15129

gtcgacccgc gcgtccgcgg acgcgagggg caatatgaag ttgaacattg ccaaccacgc 60
 cactggctgc cagaagacca tcgacttcga tgatgagcgc aagacccgca tcttttacga 120
 caagcgtatc tccgctgagg ttgccgtcga ctctctcggt gacgagttca agggctacgt 180
 cttccgcac accggaggta acgacaagca gggtttcccc atgaagcagg gtgtcctcct 240
 ccttcccgt gtccgcctct tgttgtccaa gggtcactct tgctaccgcc cccgccgcac 300
 cgggtgagcgc aagcgcaagt cggtcgcgg atgcattgtc ggttccgaca tgtcggtcct 360
 ctctgtcacc attgtcaagc agggtgagca agacctncc ggtcttactg acaccactgt 420
 cccaagcgt ctcggaacca agcgtgccaa ccacatccgc aagttcttca acttga 476

<210> 15130

<211> 475

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-C6

<400> 15130

tcgtgggtcg acccaagact ctatagttag tctatcatc ccgcccacgc tggcgagtga 60
 ccaagtgggtg tcgagtcttg gagccatgtt ctttttctgc tccatgatgg tcacttttat 120
 ttgctgtctc aaccagatcg tcaccgagaa ggagctccac ctccggcaca gcatgcagat 180
 gatgggcctc aagacactcg tctactgggt ctctggtgg ctctcgaacg ctgtcctggt 240
 cctgatcagc gcagtcgtca tttgcggtt tggaaatcgcg ttccggctta gcgtgttcaa 300
 gaacagcaac tttttggctc ttcttgtcac ctttttctc tttggactgt ccatgggtgac 360
 catggcgctt tggatcacca ccatgggtcaa ggcaagcagg accgccatcg tgatcggcat 420
 ctttttgttc accctcggaa tgctccttga gagcatgggt ttctcgaaca gctac 475

<210> 15131

<211> 482

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-D1

<400> 15131

gtcgacccac gcctctgcc tctcatcatc ctcatcttca ttcacatgt cttggcaatc 60

atacgttgac accaacctcg tttccaccgg caaggtctcc aaggcctcca tctttggtct 120
 ggacgggttct ctttgggcca ccagccctga tttcaaaatt ggaggcgagg aagtcaagaa 180
 gctgattgcc gctttcaccg acatttccga tatcgtgtgt aatggtctct acttgagggg 240
 tgccaaatac gtgttcttga gaaacccgga caatagcatt tatgcccga acggtgccac 300
 cgggtgtctgc tgcacaaaaa ccagccaagc tatcattggt ggctactaca gcgagaacat 360
 gcagggcggc gattgcaacc aagtcgttga gactttggcc caatatcttg tgggcgctgg 420
 ttattaaaca tggtcaggcc ccaagtccca gggtcgaaca ggtecatgtt ctcaatcata 480
 ta 482

<210> 15132

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-D4

<400> 15132

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 gtcgcggcaa caatcactct tctcctgtcc cagctagccg ggcgtttggt cgcattcact 120
 cttccactac cgcttaccgc caatctgtct cacagtagcc atccgcctct ctccattcat 180
 cgaccacac ttccaaccgc ccatggagga ccacgaattc gtcaattatc tactggagggt 240
 ggaacaccct atcagcggtc ggaaagggtgt cccccacgtt cttatttcag gggcggggctt 300
 gggaggcctc ttcctggcca tctcctaga ggaggccggg atctcctaca ctatcttoga 360
 gcggtccagg gacatcaggc ccataggggc tataatggcg ttgtcggcca acatcttac 419

<210> 15133

<211> 468

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-E4

<400> 15133

ttcgtcccaa gcctctatac tgagtcgtat taattgcccc tactttcact ctccctccac 60
 taacatctca gaagacaatg tcttcagtaa cagcatcgcc cagggcgcggt tctctcggat 120

gccgcctgt ctacctgctg gtcgtcctct ccgcactctt caacttcatt gtccaagcgg 180
 cccctatctc caccagtgcc aagaagccca atgatgataa cgacaacatt ctacgcaccg 240
 ctgcgatgg tccatacaat ctcaactgtcc aagccggcat cgcaggagcc atcctgatcg 300
 tctttggcct catcctctgc ttccttgggtg tccgcttctt ccgcgtgtgc atgttcttga 360
 ttgggttcta cttctttgcc aatgtctcgt acatcggcgt gtccaatggc ggggtcacca 420
 acttctacct cctgctcgtc atctcgatcg ttgtccgtat cctcgggtg 468

<210> 15134

<211> 483

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-E5

<400> 15134

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 cccgtcctag tccccctcaa cccccctctt tgacaaagac aacaaaccat ggctgctgct 120
 cccagtgtga ggacgtttac tcgggccgag gttttgaatg ccgaggctct gaatgagggc 180
 aagaaggatg ccgaggcacc cttcttgatg atcatcgaca acaagggtga cgatgtccgc 240
 gagttcgtcc ctgatcatcc cggtggaagt gtgattctca cgcacgttgg caaggacggc 300
 actgacgtct ttgacacttt tcaccccgag gctgcttggg agactcttgc caacttttac 360
 gttggtgata ttgacgagag cgaccgcgat atcaagaatg atgactttgc ggccgaggtc 420
 cgcaagctgc gtaccttggt ccagtctctt gggttactacg attcttccaa ggcatactac 480
 gcc 483

<210> 15135

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-E6

<400> 15135

tgggactcgt gggtcgacgc aacactctat agtgagtcgt actatttgtc actgaagtgt 60
 tttcattctt cttcagtgcc cgttctgtat cttttgttct gctgtccctt ttcgttgttg 120

ttttttactc tcaactctcac tctcactctc tcacgcaatc gctctctcac acttgactac 180
 gtctgtgctc tttccttttt gccacttgt ctgttttgag ttgaacattt ctgttctttt 240
 tgtgaagttg cacctttttc ttaattttcc ttattttctga gcaatgtctg catctaacca 300
 ttcgcgcaag accggagtcg tcaagttctt caacagccag aagggttttg gttttatcag 360
 tccccacgac aaggcaccgg ataaccccca gggaaactcc gactagatct ttgtccacca 420
 taccgccatt cagaatga 438

<210> 15136

<211> 470

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-E8

<400> 15136

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 acccttccgc cgtcctcgtc gttgaccctc attcaccctc cttggatccg attaccttac 120
 attgttcatt tctctcgagc cgtgatttcc attaagcacc aacttacacc atggacaaat 180
 ccgaggtgtt taacgaaaag actcttgcag aggagaaaaa agatatccat gatatcgagc 240
 cccagataga tctcgatgaa gaggatgact ctectattga agaggtccgg gtcaccgtta 300
 caaacacgga cgatcctagc ctgccctaca acaccttccg catgtggttc ctcggcctca 360
 ccttcacggc tattatctcg ttcgtgaacg agttcttcta tcttcgtcaa acgaccgtct 420
 ctatcggcta ttcagtcggt gctttgatct ccttgcccat cggacacttc 470

<210> 15137

<211> 498

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-F12

<400> 15137

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 cctctcttcc tctcttctc tcattcttcc ttctcatccc ttcttctactg cacaccatgc 120
 tggcttcaat tcacgagaag gtctcgtcct tgggtcaaccg tcatagagac accatcggca 180

agggtggtcga ccctgcgctt gtacaggggg cgcgcgacaa agccaacca agcaagaact 240
 gggactatac catcactttc aagggcgcaa aggacgtccc ccgcggcgat atcctctcct 300
 ccgatccgtt tcttgaggcc tatgtgggtg ccccagagga ccccagacc ttggctttcg 360
 tcaactggcat tcaactggaat aactgaatc ctgtttggga tgctgtgtgg gaactgctca 420
 acgttgccga tgatactgtg ttggacctgc acatcaagga caaggacaag atgaaggagg 480
 acacccctct tggcaagg 498

<210> 15138

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-G10

<400> 15138

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 caaagataca gtcagtactc agtagtttga gggcacctac ggaaagcaag taatactaca 180
 gagggtagac gttccaatgc ttaatgatga aacatcatca gtacaagcaa acgtgttttt 240
 catcatacac cgtatcactt tcacaagtgg ctgcagtcac tccgcagcat aaggagattg 300
 acttcgagaa gcagcatcaa ctttgcgcag aggagcaagg ctaccaggag atggggacct 360
 ctcattgcta cgcctttcaa gagacatctc ctt 393

<210> 15139

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-G12

<400> 15139

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 ggctgttcaa acagtataa ttcttgcaca tgaacactaa accagaacga taacaggaaa 120
 cagagataca gtcagtactc agtagtttga gggcacctac ggaaagcaag tattactaca 180
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catcatacac cgtatcactt tcacaagtgg ctgcagtcac tccgcagcat taggagattg 300
acttcgagaa gcagcatcaa ctttgcgag aggagcacgg ctaccaggag atggggacct 360
ctcattgcta cgcctttcag gagacatctc cttagaatga gaggcctttt gcaaagcaag 420
gcttcttggg c 431

<210> 15140

<211> 474

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-G2

<400> 15140

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ccctcactcc atgagcaacg tcgtcatcgg cacttgcttc atctggttcg gctggtttgg 120
attcaacggg gatctgctc tttccgcaa cttgcgcgcc gccatggcct gcgtcgtcac 180
taatctcggc gcctcggtcg gtggcatcac atgggtcctt ctcgactacc gccacgatcg 240
caagctgtca gtccttggat tctgctcggg tgctgttgct ggattggtct ctatcacccc 300
tggctccggc tacgtttctc ctgcatcaag tgttgccatt ggattcttgg gcgcctgtgc 360
ttgcaacatg gcagttcgcc tgaagcacta cttgaagtac gaccatgccc ttgaagtcct 420
tggcgttcac ggtgtgggtg gaatcgtcgg aaactcctga acggtgtctt tgcc 474

<210> 15141

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-G4

<400> 15141

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ggctgttcaa acagtaataa ttcttgacaa tgaacactaa accagaacga taacaggaaa 120
caaagatata gtcagtactc agtagtttga gggcacctac ggaaagcaag taatactaca 180
gagggtagac gttccagtgc ttaatgatga aacatcatca gtacaagcaa acgtgttttt 240
catcatacac cgtatcactt tcacaagtgg ctgcagtcac tccgcagcat aaggagattg 300

acttcgagaa gcagcatcaa ctttgcgcag aggagcaggg ctaccaggag atggggacct 360
ctcattgcta cgcctttcac gagacatct 389

<210> 15142
<211> 415
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB36-011-Q2-E2-G6

<400> 15142

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acaccaagcc tgacggcacg tactactaca caaactcgtc aaacccaac tcgtactact 120
acaacaacag caacggctcc tactactacc agaacgccga cggctccaag tactacaaca 180
acccaacac cggcacctcc cgctacacca ccccgagtgg ctatgaaatc aacaccaaag 240
gtggcagaaa gtattaacgg gctttctttt cgtggccaat ggctctatta acctatgcc 300
taatctctga ggccaccaa gcatgacaaa ggctaaccct gcccgctatt tacctgtata 360
tcgaatanaa cgacanacga aaagaaaaaa taaagccttc ttgtcctact tcann 415

<210> 15143
<211> 482
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-G7

<400> 15143

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ctcaacatca tgccaggcga acacgaaaac atcaccatgt tccagttctt tgaatggtac 120
actcctgcag acaggatgca ttgggtccgc ctcaaggaac aggctagcct gctgagctct 180
ctcggcttat cggctatttg gatccacct cccatgaaag gatgctccga atgggatgta 240
ggatacgtc cctacgatct ctgggacttt ggtgagttcg accagaaggg catggtacca 300
acaaagtacg gcaccaaaga cgagctcaag gcagccattg acgagtgtca caagtatggc 360
atgaagatct accttgacgc cgtgctgaac cacaaggctg gtggtgacga gaccgaggtc 420
ttcaaggctg tagctgtggc tgacgatgac cgcaaccgag agattgaaga gcccatgaca 480

<210> 15144

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-G8

<400> 15144

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tcgcttgact tgcttggtac ccaactccacc tcaagaaggt ttattgacaa gcgcgcgact 120
tctgtacccc tgtgcccgcgt gtgcccagct cttgtatcct ttgtgtcatt tttccatcct 180
atcaagctct ccaacaaccc tcgcacagtc ctccatactt tggcaaacag tggacttagt 240
tctgacgaga gcatatatat aagcgccaca gacaacatca agccctcgtc ctcaaaaccc 300
gccctcctcg agtccacaat gccgccccca cctgacattc ctctgacaga gacagaagca 360
ctactgatcg aagcctacaa caggattcta aacgaaccct ttgaggacaa gtacgaagat 420
ctttgggag 429

<210> 15145

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-H11

<400> 15145

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cacagataca gtcagtactc agtactttga gggcacctac ggcaagcaag taatactaca 180
tagggatatac gttccagtgc ctaatgatga aacatcatca gtacaatcaa acgtgttttt 240
catcatcac cgtatcactt tcacaagtgg ctgcagtcac tccgcagcat aaagagattg 300
acttcgagaa gcagcatcaa ctttgcgcag aagatcatgg ctaccaggag atggggatct 360
cgcattgcta cgcctttcag gagacatctc cttagaaaga 400

<210> 15146
 <211> 451
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-H12

<400> 15146

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gacatctttc gccattccc acaggagcca gaggttgcaa ccacatttgc tgtgacagac 180
tttcccatgc tgcacctcgc cgagaaggag ggtctcgatc gactggcaca gctcggcttc 240
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ccgacacacg gcactccggc tctactcacca cctggacttt acctgacggc cctcgcacac 360
tcgttggaaa agaaacttca gacctatcgg cgagttattg tcgacaccga gtctgccatt 420
ctctctggag aggataactt aggacgcata g 451
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<210> 15147
 <211> 328
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-H2

<400> 15147

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tataatgcta tgaattccaa accacagaag attcacataa gacagagact aaaaaggctg 120
ttcaaacagt aataattctt gcacatgagc actaaaccag aacgataaca ggaaacaaaag 180
atacagtcag tactcagtag tttgagggca cctacggaaa gcaagtaata ctacagaggg 240
tagacgttcc agtgcttaat gatgaaacat catcaatata agcacacgtg tttttcatca 300
gacaccgtat cactttcaca actggctg 328
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<210> 15148
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-H4

<400> 15148

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caggccggta ttcaaactcg taacgcctgc tgggagctct actgcttgga gcacggcatc 180
tcgcctgacg gtaccgttgc ctctgacaag cagtcttctc agtttgactc ctctccagc 240
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gaggagaccg ttgttgacga ggtcagacgc ggcacctacc gcagcctttt ccacctgag 360
cagttgatca gcggaagga ggatgctgcc aacaactatg ctctgaggca ctacacc 417

<210> 15149

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q2-E2-H8

<400> 15149

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cgttgagctc cagattggac tcaagaacta cgatccccag cgtgacaagc gtttctctgg 180
ctcggtccgt ctccccaaaca tccccgccc caagatgtcg gtctgcattc tcggtgatgc 240
ccttcaactgc gaccaggcca aggagatcgg tatggagtac cagtcggttg atgacgtgaa 300
gaagctcaac aatgacaagg agcagattag aaagctccgc aagaagtacg atgccttcct 360
ccgctccgaa ggctggatc aagccaattc ccccgctctt tggggacctg gtct 414

<210> 15150

<211> 471

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-012-Q1-E1-A1

<400> 15150

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aatttcttga ccatggagtt ctcactcttc taaaaaactg gcttgagcca ttacctgatg 120
gaagcatgcc aaacatgaat actcgatctg ctgtactgaa attattagct gattttccaa 180
ttgacttgga acaatatgac cgaagagagc agcttaagaa aagtggcctg ggaaagggtca 240
ttatgttttt gtccaaatct gatgaggaga ccaactgcaaa taggaaattg gctaaggagc 300
ttgttgataa atggagtcga ccaatattca acaagagcac gagatttgaa gacatgagga 360
gatatgatga tgaaaaagca ccttacaggc ggccacaaat gaagaaacca tccagtaact 420
ccggaatggg atccagagat gatgatgttg aagctgacct ttcacaacgc a 471

<210> 15151

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-A2

<400> 15151

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tcttcgtcgg cggaggccat ggtttccctc aagccgcaga agacgctcgc cgccggagtc 120
ctaaaatgtg gcaaggggaa ggtgtggctt gacccaacg aggtctacga gatctcgatg 180
gctaactcgc gtcagaacat tcgtaagctg gtgaatgatg gattcataat taagaagcca 240
cagatgatcc actcaaggtc ccgggcaaag atggcccatg aagccaatca gaaagggatg 300
cactctgggt acagtttagc caagggtacc agagatgcta agctccccac caagatcctt 360
tggatgcgca tgatgcgtgt cctcaggcgt ctgctgcgca agtatcgtg 409

<210> 15152

<211> 77

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-A3

<400> 15152

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actctagagt tgaaaca 77

<210> 15153

<211> 464
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-A4

<400> 15153

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cgacacgaac caccaccacc aaccagcagc cgcaccacgc acccagcgca aagcgatggc 120
gtcgtcacc atgatggcgt ccttcgccgc cgtggcggtg gccgcgccct cgcgccgcgg 180
caccttcgcc gtggtcaggt ccgccaaggt cgaccgctgc caggagcccg ccacgctagc 240
agcaaccgag gccaggcccc cgcgcgacgg acgcccgcgc gtcattgctc cggctgctgc 300
ggcggccgtg gcagccatcg gcggcgccgg cgcgcgccatg gcggggccca agaacgggac 360
ccccgaggcg aagaagaagt acgcggccat ctgcgttcac atgcccaccg ccaaggctctg 420
ccacaactga gcacgcccgc gttgcagctg cagggccggg gggt 464

<210> 15154
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB36-012-Q1-E1-A5

<400> 15154

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ctgcctgggg aaaccaaaa gttggaaaca tgaacaaaaa cgttcgatgg agtgctcctg 120
tgcagggaac ccgagtcag gaaaataaca acatgaactg gaatgcacca aatggtaatc 180
ctaataattg gaataatcag cagagagaga atgagggcag gcactctgga caccgtgggtg 240
cttttagtgc tggcgactca ggcagaaagt catggaagcc acgctctggt gccgatgggg 300
ggtcatgggg gacatanagg agtctgctat acatttcttg aacgcggnga ctgctttaa 360
gttgactgca aattcgccca ttcaacanac acaganggat atccatccat ccaggattcg 420
ggcaacgag 429

<210> 15155
<211> 241

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-A6

<400> 15155

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 gagtgtccg gtgcatggaa actcgattca cgacaacatc accatggact ggtatgcaac 180
 agatggtagt cccaataatt gggataatca gcacagagac aatgacggca tggactctgg 240
 a 241

<210> 15156
 <211> 459
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-A7

<400> 15156

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 acgatggccc tcgcgtcgc cagacccca ctgcgcgcatc tcgcccttgc ccgcacctcg 120
 atcttcggct ccagtcctc gctgctgctg ctcccgcgcc gcgcgtcgcc cgcctccgctc 180
 tccctctccc accgcgcgat catcgcgcc gtcgcgacca aggaaccga gctcggcggc 240
 ggcggatcgg gggccggcga cggtgccgga gggagcggcg gcggcagcga cccgagggga 300
 ggagggcagg aaggagacgg ggaggaagag aagatggggc agggcctgtc catgtcgag 360
 aaactacccc tcgcctacgc cgcgctcgtc ggagctggtg gtgtaatggg atatatgaag 420
 agtggagacc agaaatcctt ggctgcaaga ggcatatca 459

<210> 15157
 <211> 371
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-A9

<400> 15157

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acatctcgag atggttcggg ctggaccagt ccaagtacca gtgggcgctc aacgactatt 120
 atgagaggac cgggcaggag atagatttga gcaacgttgg cactcgttag cagcacagtt 180
 gtaaaaattc agaaagcttg aaaaagtga ttatttctag tttttatgtg tgtaactaag 240
 ctggtgccgt gtcaagctgc atatagaatc cttttggttg cgtgaagact gagttctctt 300
 tttctgcacc cggaagctct tgggtgtaac aaatccatat ttagcacctt tattgtagct 360
 tcgttgtgga t 371

<210> 15158

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-B3

<400> 15158

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 atctatgtcg ttgattctct ggacagagaa aggatcagag atgcgaggca agagttccag 180
 accattatca aggacccttt gatggcaaac agcataatct tggatatttg aaacaaacag 240
 gacctgagag gcgcgatgag cacggacgat ggtcagcgaa ggctggggct gcatgacctc 300
 aggaacagga tctggcacat acaggggaac tgcgcgctcc gcggcgca 347

<210> 15159

<211> 462

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-B8

<400> 15159

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 tggatggcga gaagataatg tcagctgaag agcctcctga ggtgacaaaa gcccgcaatg 180
 acaactcgca tggaacgaac ttccctgact ctccggaacc aatctatggc acccagtatc 240
 taccaaggaa gttcaagggt gcagttaccg cggctgggtga taactctgtt gatattctga 300

ccaatgacat cgggtgttggt gttgtttcag atgatgcagg agaacctatt ggctttaaca 360
tctatgttgg tgggtggcatg ggaaggacac accgagtgga aactacattc cctcggctgg 420
ctgatccatt gggttatggt ccaaaagaag atatattata tg 462

<210> 15160

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-C3

<400> 15160

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gacgaccccg tcgagcgctt gaaggacggg ttccacaagt tcaagaccga ggtctatgac 120
aagaagccgg agctgttcga gcctctcaag gccggccagg cccccaagta catggtgttc 180
gcctgctccg actcccgct gtgccgctg gtgaccctgg gcctgcagcc cggcgaggca 240
ttcacgctcc gcaacatcgc cgccatggc ccagcctacg acaagaccaa gtacaccggc 300
atcgggtccg ccatcgagta cgccgtgtgc gcgtcaagg gggaggctct cgtggtcatt 360
gggcaaagct gctgccgtgg caataagggc gtcctctctc ctccaa 406

<210> 15161

<211> 473

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-D11

<400> 15161

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attgttcgga aggccatgaa ggacaatggg gataatggag cagattcatt agttgaactt 120
cttcttactt actaggaact aggcaatgac ctcaaagtgg ataacggctt cgcttctggt 180
tgtgcccccc aaactgttga tgatagtgat gatgacgaca ttctagaaaa ctgggatgat 240
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gaggatttct taaatgagat gtcacagaag gacaagaaag ttgattcctt agttaaagt 360
gggtttcctg aagacgaggc tgcactggct attactagat gcgggcagga tgcacttatt 420

tctgttctgg tggattccat atatgcttca cagaccgcat gagatggtta ctg 473

<210> 15162
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-E7

<400> 15162

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gcatggccag cggcggaggg tcggagcggc gggcctgcgg caccggcagc cgcgcgccgg 120
cggcaggatc cgggccctgc cttcggcgga ggtcatcagc gagatcctga gcccgaagct 180
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gatgctgctc ttctacttcg tgtccaactg ggtgggtgcc gagctgctcc tgaagggcct 300
caaggagccc aagcccaggg acgaagcgtc cacgtccttc gccgcgtccg cggacaacgc 360
cgccgccgct ggcccagcag acgacggcgg cggccgtaag atccgcctca aggtcaagaa 420
ga 422

<210> 15163
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-E9

<400> 15163

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ccatggcgcg cgggtggtggt gggttggtgt tgggtggcagt gactcactga tgggcacgcg 420
tcctgctcgt ggaatccacg acttgctgcg cctgctcagt 460

<210> 15164
<211> 250
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-F12

<400> 15164

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agatcgagct tcttttgcac cacaaggctcg aggatgtctt gcaactgcgg atcaagctgc 120
ggctgctggct caagctgcaa gtgcggcaag aagtaccctg acctggagga gacgagcacc 180
gccgcgcagg ccaccgtcgt cctcggcgtg gccccggaga ataacgccgc gccctagttc 240
gtccaggccg 250

<210> 15165
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-F7

<400> 15165

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aatatcaaat ggtaacctta taactccaag ggcaataaat agaagcaaga accacgcagg 180
aaacgtcgtc atgcatagca ctaagaaaga tttctgtcct tcgcaagcgc gcgtctcagt 240
ggtgtcgact acccactcgg cggcctcgcg gaggcggcgc tcgggctcgc tctccggctg 300
cccgatgggc gtgctagcga cgaggcccat gaatgcagag tttttcgcct ccatggatgc 360
ggcggcagac gcggcgtcgt cgga 384

<210> 15166
<211> 471
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-G10

<400> 15166

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ccacgcgtcc gccacgcgt ccgcccacgc gtccgaggac gcgtgggggt gcattggagg 120
cgaggaggag ccacgccggg gctcaaggaa tggccgctct ccgccacctc gccgccggcc 180
ccacctgcca ccaccaccac cacggcgctc cggcagccac cgctccctc cggtccatc 240
gcctccccct ccccttccgc ccccttcgt cccgctcccg ctcccgtcc cgtcccttca 300
ccagggttta tgcgatctcc agcaatgaca tcagggtcgg caccaacgtc gaagtcgacg 360
gcgcgccatg gaaagttcta gagttcctcc acgtcaagcc tggaaaaggc gctgctttcg 420
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<210> 15167

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-G5

<400> 15167

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gtacatgatt gagggagacc ttaaacgttt caaccgtgtg gcgattgaga ggctgaagga 120
gattaggtgc tacaagggca tccggcacia gcttggactc ccagttcgtg gccagaggac 180
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cgctcccag gatgaataaa tcgtattgcc atgtattgaa gttctctctc tctctctctc 300
tctctctctc tctctctctg tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tagcgctact 360
actgctgggt gttttgtttc gagcttttat gctgccattg acaaatcatg gggtagccat 420
cagctgctgc agattttgta gcaatgacat act 453

<210> 15168

<211> 467

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-G9

<400> 15168

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cgcggtccgcg gacgcgtggg tttttttttt tttttttaac aatacaacaa ttttagagag 120
caagagagat tattgagtac acggtgaata aagcaagcaa ttacatgata tgattatgtg 180
gattatgcta ttacacatag gatcgatggt gtgacgctag ccagcacagc atgcagcttc 240
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gccggccggc cccacttatt tcacctctaa gacctcgctc aaggcgtagt tgttggtgga 360
cacgccggcg tagttcacct tgttgaaccg cacáaccacc gggtagcggg tgttgggatc 420
ctgatcgacg gtgacgacgt tgccgatccc gttgtaccag tacgact 467

<210> 15169

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-H12

<400> 15169

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atggcgctcg cgagcgggct gaggagctgc aacgccgtgg gcgtgccag cctgctggcg 120
ccgtcgtecc ggtccggccg cctggcgccg ttctgcgcca acgccaccat atctggccgc 180
gtcaccatgt ccgcgagtg gatgccggc cagccacacc ctgccacct cgacggctcc 240
tctccgggg acttcggctt cgatccgctg ggctcgcga ccgtgccaga gaacttcgac 300
cggttcaagg actcagaggt gtaccactgc cgctgggcca tgcttgccgt ccccgggata 360
cgtttgccgg aagctctggg 380

<210> 15170

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-H2

<400> 15170

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ttgaaaagca atagaagaga gaggtagaga agaaagagct ggataagcaa aagcaaaggg 120
aggaagagag gatggagatg gagaaggaga agaaaaggca gcgagagagg gaggaagaga 180

gacagagggga gagagagcaa tacgaaagga aaggtggaaa tgatgtggag agagacaaca 240
aaaggaaact gatagatgat cggtatgatc caaattcaag tagagataga gaagagggat 300
acagagactc tcagaacaga gatgacaata gaaggcagga agagcatggt caacacaata 360
gatatatgga tagtcatgat tccaagaggt caaggcatga ctgcattac cattcaagga 420
gggattatga acaacgctat tctagagacg aaca 454

<210> 15171
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-H5

<400> 15171

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tggaagaagcg aaaggggtca gtgattgtgc ttaggttttt catctctctc ctaatctttt 180
tttgtgtaac tggagcagga aatgctgaaa cctcaagctt ctgtccaaac gatgtactcc 240
tatttagtat tgttgattga ttgagaggcc gatcgataac aaatgaacac ataaaacgct 300
gttcatgacg cagtgccttt tccctgcgt cactgcgtgc ttttgcgtga aaaaaaacag 360
c 361

<210> 15172
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-A11

<400> 15172

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taacaacaga aacaggggag aagagctgcc cattctagcc agtagtcaaa ctgctactac 120
agagcaaacg catagcagaa aaggtatgaa cagaccattt caatagagaa cctggcaagc 180
tgttgagacc cgtgaatagc atagtcgccc aataatgaca agctgacaca tgatagcgat 240
ttctcaagaa tcctaggtgg cagcgacagg ttcagcgttt gggacataca accacg 296

<210> 15173

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-A2

<400> 15173

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cgttcggagg gtcctcttaa gcccgccatt gctccgcccc gtccatcgac cggaacgtgt 120

tcttgatta attaactacg atctctatga gcttggggat ggatcaacc gtcgtgcgtg 180

gtctcgtttt gtgatgagt ggagagagaa gatgacaaga tcgatccttt gttaatggag 240

atctcgttaa ttaggagagc taccgctggg acttgggtgg ttgtaataa tgatccaacc 300

agtgatgaat caatgcattc acttgtgtaa 330

<210> 15174

<211> 265

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-A5

<400> 15174

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ttcgtcgtca ggtgcacagt atacaccgtc atatgctgtc aaatagatgc aatgcaacga 120

ctgcgcgccg tgcttgtgtt gcaagcgtgg ataatgcata tattatattg tagcattgac 180

atgatgtgcy ttattgcatt ttactgtacg taagggagtt ggataaataa gtgtgatttg 240

tttgtcaatt attcagtgtt gagaa 265

<210> 15175

<211> 453

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-013-Q1-E1-B3

<400> 15175

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 cttatgatga agacatccca tctgtagtaa atgtgtccat acaggaacca gaaccatcca 180
 aacagacgcc agagccagtg gaacaatcgt tgttgtctgc actttcttgt agacaggctg 240
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 catcagcttt tcacataaat gatgctgcc gccacaaatc tggttcaaag tctataggaa 360
 agcacanagc cgcattggaa tctggtagac ttctcanatc caaagttcag aagataactg 420
 aatcgcatca ggaaaggga attgctatga gta 453

<210> 15176

<211> 477

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-C1

<400> 15176

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 cgccggcgcc aatctccacg actacgtgcc ggccggccgt cttggcgacg gccgcggccc 180
 agaagaggag cctgctgctg gcgacggcct ccgagacgag gggagtcgag ccggtgaggt 240
 ccagcgggat cgagacgagc acggtgggtc tgggatgtga ggccgtcacc gggcacgtca 300
 cggaggtcaa caaggacacc ttctggccca tcgtcgaggc cgccggcgac aaggtcgtcg 360
 tcctcgacat gtacaccgaa tgggtcgggc cttgcaaagt gatggctccg aaattccagg 420
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<210> 15177

<211> 197

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-013-Q1-E1-C4

<400> 15177

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ctcgggttac ggttccttat ggttttgtgg angggcgatg gcggcagctg atgtggagta 120
 ccgttgcttc gtcggcaggc ttgcctgtgc caccaacatc gagtcgctgg agaatgcctt 180
 cgctcctac tgcgaga 197

<210> 15178

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-D1

<400> 15178

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 gttcgcctg cgcccgagct ctctctagct ccgcgccttg ctagtcgcct tcctcccaaa 120
 tggcgaccgc catgcggggc agcagcctcc tgcggttcgg ttcccgccat gcttcctgcc 180
 tcctcttcca gtccctcgg tgctctgcc cgagcctggg tctgaacctg gccgttgccc 240
 gcaccgggct tatacgctc cgatgctcgg cgcccggggc cggcgacgcc ggtggcaaga 300
 aggtgtcagc tcggctggct ctgacgcagc aggtgtctgc gaacgccgag gagcgcgccg 360
 cgtcagcggg tt 372

<210> 15179

<211> 220

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-D4

<400> 15179

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 gctgtacttc actaaccgta gtatttctgg gcgctgcatg atgatagcgg ggtggatacc 180
 atgttaacca cgctggagca catcgtacgt tcgtcacctg 220

<210> 15180

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-E12

<400> 15180

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aaaccgaaaa ccagcgtgcg ctcgtcaagc ttgcttagct agccgcatg gcctctctcg 120
ccgccgtctc cgtgaagccc gtggccatca agggctctcg cggcagctcc atctccggaa 180
ggaagctcgc cgtcgccagg ccgtcggccc gctccatccg caggccccgc gcagccgccg 240
tggtggccaa gtacggcgac aagagcgtct actttgacct cgacgacatc ggcaacacca 300
ccggacagtg ggacctctac tgctctgacg cgccctcgcc ctacaagccg ctaca 355

<210> 15181

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-E3

<400> 15181

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cctccaggca gcatgaatgg agacaccagt caccatccca tcatcagcga cactgtactg 120
tatagcaatc gggagataca cgatactcca acgcgtaaaa aagcgtaaaa gatacgtcaa 180
aacagatgtg atttttgcat ccatgcagat gcgaaacagg attttgaatc ctagcaccta 240
acggatttaa atgatgaagt ttcagttcta cgagaggaac tgagttgtac gatagggata 300
acttagctgt tgtcggactg tgtacattgt tggtatcatc acccaaaata ttgtacatct 360
agaagccata ttgtaattac ggcacgtata cagtaacact ttgatcatgt aatacagtat 420
atagttgttt 430

<210> 15182

<211> 110

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-F11

<400> 15182

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acgaaattaa agagaggaca gcattttgcc ttgccagcca tttctcaaaa 110

<210> 15183
<211> 181
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-F2

<400> 15183

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ggcctccct ggccagccgc ccggcggttct ccaccagctt caccgggggc agccgggtgt 120
cggcgaggaa cccctgatg agcaggaacc tgaagaggaa tggcaggatc acctgcatga 180
c 181

<210> 15184
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-G3

<400> 15184

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gtcctgacag gaggatctac ctgccggatg ggctgttggc ccggctcggag gtgccggagt 120
acctcaccgg agaggtccct ggagactatg gctacgaccc ttttggcctg ggcaagaagc 180
cagaggactt cgccaagtac caggcctacg agctgatcca tgccagatgg gccatgctcg 240
gtgccgctgg cgctgtcatc ccagaggcct gcaacaagtt cggcgctaac tgtggccctg 300
aggctgtctg gttcaggacc ggcgcgtgc tcctggacgg gaacaccctc aactaacttc 360
gggaaacagc aatccccatc aaa 383

<210> 15185
<211> 105
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-G4

<400> 15185

gggtcgacca cgcgtccgcg gacgcgtggg cggacgcgtg ggtgaggatg atgctgtaaa 60
 atactgcaac cctccgcaag gccgccggca aaggttccaa ggaaa 105

<210> 15186

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-013-Q1-E1-G7

<400> 15186

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 aggataacta agaagaagtc tgaggctgct gaggaccaga agcttcttgc ccagaggctg 180
 aaggaacaga gagaccgccg gagcgagagc ttggccaaga ggaggccaa gctttctgcc 240
 gccgccaaag cttctgctgc cacctctgct taagaatgtt cagtgttttg ggatccttgt 300
 aaggtctatc ttgtaacggc aaaagtgttt tgggattctt gtaagctcca tagttcacat 360
 cacttaagtg tttctgctag tagtggatca caacctattg cttgcctggc tctgagtcac 420
 acctgaccga 430

<210> 15187

<211> 211

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-G8

<400> 15187

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 gcacagagtg aggtaagcat ccgaaaaaag ctgtgatctg atcgacatgg ccgccgccac 120
 catggctctc acctcccgcg cgctcgctcg caagccggcg accaacacca aggacgtctt 180
 cggcgaaggg cgcataca tgcgcaagac t 211

<210> 15188

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-H1

<400> 15188

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ccgccgccag caggtgccac cgccatctct gttttctctc tctctctctc tctctctctc  120
tcaagcaacg cccgcctgcc cgcccgccat ggcgaccata gccacgatgg ccctgctgaa  180
gcccgccagg atcgtggcgc ggtcggcgcc gccgtccacc agcggcagcg tctcgctgcg  240
cgtcccggcg cgggccaaga acgccgcggt gtccgtgtcc gtgtcgtccg cgctggcggg  300
cgccttcttc tcggcgctgg ggttgtcgga cgctgcgctg gcggcgcaac ccgttgccga  360
cg                                                    362

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<210> 15189

<211> 185

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-H12

<400> 15189

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cccacgcgtc cgagtttaga tcgactatac tcattggaca tggacctatc tatatatctt   60
ctttgtaaac aggacagagt cggactcctg ctgcagtatt atcaactcat ctattttaaa  120
ctctttaagt tggatttatt ttcaattttt ttttgtgctt caataaatta ctagatttta  180
taaaa                                                    185

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<210> 15190

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-H3

<400> 15190

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gcgctcccgg ctctcctcct cgcccgcgcc gcgatgaaca cagccatggc caccacctcc  120
ttatccctcc aaggccgccc atcccacgct cccactagga agctctcctc cccgttcctc  180

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ggagcccccg cgtcctttct cgggccgtg gctcccacgc cgcgcgccgg cccctcctcg 240
 cggcggacgc ttgccgtcag ggccatgggc gcctcccaag cccggaggga agcccaagaa 300
 agtgggtgggc cttaaaaacc tgcggcccaa ggccgggaag ggcagcctg agccgcccgt 360
 caggccggcg ctcggtgcca acggagtcaa catcatggcg ttctgcaagg ggtacaatgc 420
 taagactgcc gacaagcccg ggtacatcat 450

<210> 15191
 <211> 148
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-013-Q1-E1-H8

<400> 15191

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 aggccgaagg ccgtttccat ttctcgaagc cgcggcagca cgcgtcctgc ttgcctcccg 120
 gtcccggatc ttgccaaccc cgaaacgc 148

<210> 15192
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-014-Q1-E1-A1

<400> 15192

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 ctgagcaaca acctgctggg gtggatcctc ctgggggtct tcggcctcat ctggtccctc 180
 tacaccatct acacctctga cctcgacgag gacgaggagt ccggtggcct ctgcgtctag 240
 atccacctcc tctcctgtta atgatctgaa tgtaaacatg gtggtggtca tcggtgttaa 300
 tttagacatg gctatttgca tctaagatcc atcctctcct gttaataatg tttggagact 360
 acgtacgcct gaagcaatag caactttgcg agaaaacttg ctgcacaaa 409

<210> 15193
 <211> 122
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB36-014-Q1-E1-A7

<400> 15193

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ctctgtaccg agattgagtt ttgtatagca aaaaaaaaaa aaaaaaaaaa aaaaaacaaa 120

aa 122

<210> 15194

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-014-Q1-E1-B10

<400> 15194

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cccagctcta ccggtcccgc gcttcgctgg gcaagccggt gaaggggctt ggcctgagca 180

tgggcccgcga gcgcgcccag cggagcattg tgtgccaggc ggcgagcagc atctccgccg 240

accgcgtccc cgacatggag aagcgggaagc tgatcaagct cctcatcctc ggcgctatct 300

cgttgcccac cgtcggcatg gtcacacact actgcgcctt ctccgtccct gcaggctccg 360

ggaacg 366

<210> 15195

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-014-Q1-E1-B2

<400> 15195

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tagcagcaaa ccagagacat ggcgaggaga aagatgaagc tgcttgcttg gaaggagggg 120

gagagagaga gagaggaaag ctttgtgcat gcgtggaatg atgtgtggtc gctttgttct 180

ttttcttttg tgcccctagt aggggtgtgc gtgtgtgtgt gtgttttagca agacatgcaa 240

aaggagtgga gagtcgagtt gaatctccat gatgcgtggt tgtacaaagc caaagatcac 300
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<210> 15196

<211> 476

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-014-Q1-E1-B4

<400> 15196

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tccgaagagg aggtggccga gggatctgtc gctgtggcgg aggcggagga accgacgccg 360
ccgagcaagc cgaaggttaa gttcggcgaa ataattggga ttctgaataa gcagttcatt 420
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<210> 15197

<211> 473

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-014-Q1-E1-B7

<400> 15197

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aattgtcagg gacatgaagg agaagctcgc ctacattgcc ctggactacg accaggagat 180
ggagactgcc aagaccagct cttctgttga gaagagctac gagctgcctg acggacaggt 240
catcaccatt ggtgctgagc gcttccgctg cctgagggtc ctcttcagc catccttcat 300
tgggatggaa gctgctggta tccacgagac cacctacaac tccatcatga agtgcgacgt 360
ggatattacg aaggatctgt atggcaacat cgtcctctcc ggtggtacca ctatgttccc 420

tggcattgct gacaggatga gcaaggaaat caccgccctg gctcctagca gca 473

<210> 15198
<211> 481
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-014-Q1-E1-B8

<400> 15198

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cggcaacgcc cagaagtcca agatggcgcg cgagaggaac gccgagaaga acaagggcgg 180
caaaggcagc cagctggagg ccaacaagaa ggccatgaac atccagtga agatctgcat 240
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atatgctctg ctcagctaaa agacaagtac tacatatata tatatacgct gtgtgtcaat 420
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g 481

<210> 15199
<211> 271
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-014-Q1-E1-C11

<400> 15199

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gctctggctc tcctagtccg accagccgcg gctgtggcac ggccacgtca tcgtccgctc 120
tgaccgagtc cgcgctgcgg caaagcggcg gcgaagacga ggacgccgag ctccgacgagg 180
cgtccaacac caacagcacc aggggagagc cagcgtcaac accacgacga cgaccaggag 240
cagcagcacc aggagtgcta cgcctccgac c 271

<210> 15200
<211> 456

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-014-Q1-E1-C12
 <400> 15200

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 gtggtgacca ccatcgttgc ccgcgccgcg atcgccaggc ccaatgtctt agggctgcct 180
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 gggcccgcgc tggcgctcgt ggacgagcgc atgtccacgg agggcaccgg gctgagcctc 360
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 ctctacacca tctacacctc tgacctcgac gaggac 456

<210> 15201
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-014-Q1-E1-D4
 <400> 15201

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 aaacctcagc ggtgataggc ggtggttgtc gaacgctggc atgaaggtgt gagtcccaa 180
 ctgctgaatc gtgttcctct ttacatgca cgtgtccaac aacaaccaag gtggaactgt 240
 gaagccttgt gtcgttgaac ttgacagcca cgtattcaga tttttttttg agttagtgt 300
 atttagttac attccctcta gaaccgagat tagcgctacc tcagtacact gccggtgcaa 360
 gataaacgaa ggaagctggg attgcatggc actgcgggtc t 401

<210> 15202
 <211> 198
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-014-Q1-E1-D6

<400> 15202

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tactagacct cattcacacg gtagctagcg cagagccctt gaccgaggagg gccccagtca 180
tttcacctct gcgcactc 198

<210> 15203

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-014-Q1-E1-D9

<400> 15203

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ctgaccagct aggatcagcg gaagcagcaa tggatgatggc gtcgtcgagc gggctgagga 120
gctgcagcgc cgtgggctg cccagcctgc tggctccgtc gtcccggtcc ggccgcttg 180
cgccgttctg cgccaacgcc accacctctg gccgcgtcac catgtccgcg gagtggatgc 240
ccggccagcc acgcgtgcc cacctcgacg gctcctctcc cggggacttc ggcttcgac 300
cgctgggcct cgcgaccgtg ccggagaact tctagcggtt caaggagtca gatgtgtacc 360
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<210> 15204

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-014-Q1-E1-E12

<400> 15204

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gcaccatggc cctctcctcc acggccttcg ccggcaaggc cgtgaacgtg ccgtcgtcgt 120
ccgccttcgg cgatgccgcg gtgacgatgc gcaagacggc ggggaaggcc aagccggcgg 180
cggcgtccgg gagcccgtgg tacggccccg accgcgtgct gtacctgggc cactgtccg 240
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ggctgtcggc ggacccggag acgttcgcca agaaccggga gctggacgtg atccactcgc 360
gctggggccat gctggggcgcg ctcggtcgcg tcgtcccgga actgctcgcc cgcaacggcg 420
tcaagttcgg cgag 434

<210> 15205

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-014-Q1-E1-E2

<400> 15205

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gctgaagctg atgaatcaac ctgaagacgg ttaaatacaag caagtgctcg gtcgaaggat 120
actcgtcaag cggacgtcac ctaacaacac taacctagtg ttactcaggt tctaactttg 180
tgctgttggt gatggtgtta agtgccggtg ggctcggcct tcttataagt ctaagtaacc 240
cttctatact tcttattgag gatgatccct tgagctagca tatatttcaa acttatattt 300
ttgtaatcac tccgataaac taatgtaaaa tttttgtaac ttgtaaaatt tggtagtaag 360
atttccgctg taacaaaa 378

<210> 15206

<211> 477

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-014-Q1-E1-E3

<400> 15206

ggtcgaccga cgcgtccggc gggtcacggg ctctactccg agatcgggca agaagccaga 60
gatctcctat ataaggacta ccacacggac cagaagttca cgctcaccac ctacgccgcc 120
aacggagctg ccattactgc tgcaagcacg aggaaagatg aagctatctt taatgaaatc 180
cagagccagc tgaagcacia caatgtgact gtggatgtga aagcaacttc agaatcaaata 240
gtgataacta caatcacagt tcatgagctg ggcacaccag gcttgaaggc aattttatgc 300
gttcctttcc cgtaccagaa atctgcaaag gctgaactcc agtatttgca ccaccatgct 360
gggtgttgctg caagtgttg cctaaatgca aaccctgttg ttaacctttc tgggtgtattc 420

ggaactaaag ctattgctgt tggcgctgat gctgcatttg atacgtcttc tggggac 477

<210> 15207
<211> 304
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-014-Q1-E1-E5

<400> 15207

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cggcgacagc agcaccgccc tcaccttcga ctgcacctcc tgggtgcatc ccaagttcca 120
caaccggag aagcgcctct tcttcacct caagtcatac ctgccgtccg acacgcccaa 180
ggggctggag gacctgagga agaggacct gcaagcgctg cgcggcgacg ggcacggcga 240
gcgcaaggtg ttcgatcgcg tctacgacta cgacgtgtag aacgacctgc gcgacccgga 300
caag 304

<210> 15208
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-014-Q1-E1-F3

<400> 15208

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ccgcgacaggc gcagatcagc cgcaggcggc gcgcgccggt gctgcccacg ccgagggcgg 120
cgggtgtcggg caccgagaag gcgccgtcga gcaagcacga gcgcgtggtc aggtgtcaca 180
gcacccagga gttcgacgac gcgctcaacg ccgccaagaa ccggctgggtg gtggtggagt 240
tcgcgccgag cgacaccgag gacagcagcc agatctaccc gaccatgggtg cagctcaacc 300
gcacctgcgg cgacatggac ttctgtctgg tcttgctcc acgacgagtc ggaggccacc 360
aaggagccgt tccgccggga 380

<210> 15209
<211> 312
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB36-014-Q1-E1-G3

<400> 15209

cagatctgcc cgctgaagga tgttgccca aattaacttc cttggctttg gagacggaac 60
cctactctat ctcaacttaa atcggaaaag aagtgtatca ccaaaggatt gctaccgaga 120
cattcacctg gcttgagctg gcttttgcta tagcgtgcaa ggggttgctg ggtgtcgtac 180
ctacctgact tatcattatc tgtggttaca ttctggaccc tgtattttct atgctttcat 240
gtctctctac tttctagtat taattatcaa taagttgggt tggaatgggt gaaaaaaaaa 300
aaaaaanaaa aa 312

<210> 15210
<211> 306
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-014-Q1-E1-H10

<400> 15210

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atggcctgct ccttctccgc cgacatcacc gtctcttccg ccctacacc ggccgccaga 120
cccctcgctg ctgctacgca ctccgtccgt atcgacgct cggtgtcgc taccaatgcc 180
aggccgcacc gcctcgccgc ctcaaagttc ggcgaggcta tcatactcgt tgcacgcgt 240
agtctactcg atgacttgct gctggtcggg aacaaggtgc ctgacttcga agttgacgt 300
gtattc 306

<210> 15211
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-A11

<400> 15211

gtcgacgcac gcgtccggcc actcgccatg gtcgtggcgt ccttgctcac atcaaccagc 60
ttggactgca cgctctggca tccgctggcc gagcagctcc ctacgccgc gccctgggtc 120

aagctcgtec ccatggcggc tttcccatgg cgtcccttgg cctccagctt ctgctcgcg 180
tagctcgccg gtgacggcaa ggccgaccat ccctgctacc cagcgccgac cgctcacttt 240
ccatggccgg cgctcgccct taacgcggc gctcggacca cggcctcgct gccggtgctc 300
gccgaccgag gccgtcctgc tccctgctcc aaccaagctc gccaggtct tccacttcac 360
cagcagcagg agctgcttct cctcaagct cgcctcacc tccattaatc tacttgctt 420
cacactctc tcatcc 436

<210> 15212

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-A12

<400> 15212

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tcaagtctcg ctacgtagca gtgcaataaa aaaagcagcc gcaatggcga gcagcaccat 120
ggcctctctc tccacggcct tcgccggcaa ggccgtgaac gtgccgtcgt cgtccgcctt 180
cggcgaggcc cgcgtgacga tgcgcaagac ggcggggaag gccaaagccgg cggcggcgtc 240
cgggagcccg tggtagggcc ccgaccgcgt gctgtacctg ggcccactgt ccggcgagcc 300
gccgagctac ctgacgggag agttcccggg cgactacggc tgggacaccg cggggctgtc 360
ggcggacccg gagacgttcg ccaagaaccg ggagctggaa gtgatccact cccgctgggc 420
catgctgggc gcgtcggct gcgtcttcc 449

<210> 15213

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-A3

<400> 15213

gggtcgacgc acgcgtccgc ccacgcatcc gcgaatatgt gctggagctc ctctcgtgac 60
gctcttctct cccggcgctg gagctcccct atcaagtctt gtccgacggc gctccggggc 120
gctcctctcc ctgggtccgg cgggtgctct cttcctgatg ttgatgatta ctccggccag 180

ccagcagtgc ttccccgccg gcagtgtctc cccgccagtg ctctctcgct cctgggtgtg 240
cttccccgcg accgggttatc gttccctgag acgctcggtc tcgctccga cctcaacaat 300
ggagaccccc ccaggagcga tgacgtctgc accgggtgtt gtcattctcg atgacaacca 360
tggttcgttc ttagttgaac agttaccttg ttgttgtgt aaacctata cattattcat 420
tactacacat tgtgtcagat tcgta 445

<210> 15214
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-A4

<400> 15214

gggtcgagcc acgcgtccga tattaatcag ttgggtgtcg atacttggct ggatgcttaa 60
cgggtgttatg aatgctgtct taatatTTTT cttcagcatt actacctttg atgaccaggt 120
gttccgcacg gatgggtcaac ttgcaggctt gggtgtctta agcgtcgtca tgtacacttg 180
tattgtatgg gttgtcaact gtcatatggc actctctgtg cactaattca tcataatcta 240
gcacatatcc atatggagca gcattgcagt atgggaactt cttcccatag cttatggttc 300
catgaacccg tggttctcag ctacacacta catagtcttc atcgatcaac tggccccag 359

<210> 15215
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-A5

<400> 15215

gggtcgcccc acgcgtccgc gacttgtttc attgattctt gaagagatcg agcttctttt 60
gcaccacaag gtcgaggatg tcttgcaact gcggtatcaag ctgcgggtgc ggctcaagct 120
gcaagtgcgg caagaagtac cctgacctgg aggagacgag caccgccgcg caggccaccg 180
tcgtctcgg cgtggccccg gagaagaagg ccgcgcccga gttcgtcgag gccgcggcgg 240
agtccggcga ggccgcccac ggctgcagct gcggtggcaa ctgcaagtgc gaccctgca 300
actgctgatc acatcgatcg acgaccatgg atatgattat tatctatcta gcttgtgggtg 360

gtggttgaac aataataagc gaggccgagc tggctgccat acataggtat tgtgtggtgt 420
gtgtgagaga gagagaaaca gag 443

<210> 15216
<211> 471
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB36-015-Q1-E1-A7

<400> 15216

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gtggatgcta ttagatccct cgtaactcct accccagaag gtgactgggt ttctacaggg 120
gtttatacga ctggaaatcc ttatggcata gcagaggata tcgtgttcag catgccatgc 180
agatcgaagg gtgatggtga ttacgaacta gctagtgatg tgttgatgga cgattttctc 240
tgggaacgga ttaaaaagag cgaagctgaa ttgcttgctg agaagaaatg cgttgcccat 300
cttacaggag aggggaatgc attctgtgat cttccggaag ataccatgct accaggagaa 360
gtgtagttta gttacagaag caacagcagc ggaatgcatt tgccaatata ttagctgaga 420
cttganacat ctgcttgcca gatgcagcaa ctacttttat atatatatgt g 471

<210> 15217
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-A9

<400> 15217

atacatccat ccatccatcc atctatagca gtattatgta tgcattccaca tggtaataat 60
ctggctgacc gcatccgcat atggctgtct catcgtccat ctataccttg aaagctacta 120
attaattact gagttattat tactactggt ttactacta ctacgtacaa ctacctcatc 180
tagctggtgt attaattgat tttgtttggt actgctgtac tactgttggt gtggagatga 240
accatgcatg gagtgggttag tcaactctta gtactttcat gacgttggtt tcaacggtca 300
aaactaatga taaaattc 318

<210> 15218
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-B10

<400> 15218

gtcgactcac gcgtccgctc acgcgtccgg ttctctccg gcgggcagtc ggaggtggat 60
gcgacgcata acctcaacgc catgatccaa tggcccatat cgtggcacgt gtccttctcc 120
gacgcgcggg cgctgcacaa cacctgcctc aagacctgtg gcgggcagcc ggacaaggtc 180
aaagcggcgc aagacgcgct gctgctgcgc gccaaaggcca actccctggc gcagctcggc 240
aagtacacct ccgacggcga ggccgccgag gccaacgagg gaatgttcgt caagaactac 300
agctactaat taatcgcccg gccatcaccc gggataccgc cgcccctccg agagatacct 360
gtgtactgat 370

<210> 15219
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-B2

<400> 15219

gggtcgacgc acgcgtccgc agacacgtgg gcggacgcgt gggttttttt ttttttaaca 60
atacaacaat tttagagagc aagagagatt attgagtaca cgtgaataa agcaagcaat 120
tacatgatat gattatgtgg attatgctat tacacatagg atcgatgttg tgacgctagc 180
cagcacagca tgcagcttca cagcctcatt tcacaactac taaaaatcaa tcacacggta 240
gctagcgcgg agcccttgag ccggccggcc ccactcattt cacctctgag acctcgtcca 300
aggcgtagtt gttgggtggac acgccggcgt aattcacctt gttgaaccgc acaaccaccg 360
ggtagcgggt gttgggatcc tgatccacgg tgacgacgtt gccgatcccg ttgtaccagt 420
acgactccct cc 432

<210> 15220
<211> 463
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-B4

<400> 15220

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gtcccgaccc cgaccgatcc tcgcctgctg cagccatggc gaccgcaçgc tcgcgcaggg 120
gctcaagggt gacccacgt acctggtggt ggagcaggac aagacgctgg ccacctacgg 180
gatcaacgcc gtgtgcactc acctcggctg cgtcgtgccg tggaacggcg ccgagaacaa 240
gttcatctgc ccatgccacg gatcccagta caacaaccag ggcaagggtg tccgtggacc 300
ggcgctctg tcgctggccc tggttcacgc cgacgtcgac gacggcaagg tcctcttcgt 360
cccgtgggtg gagaccgact tcaagaccgg cgaggaccgg tgggtgaaag catgacgatg 420
atccgaaacc agcggtgctc agtgctcaca catgagacct acg 463

<210> 15221

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-B5

<400> 15221

gggtggcccc acgcgtccat aagtgttgaa ttagctggaa gttcagttca attgcccctt 60
gtgtggaata ttcaagtga cacaatggcta cgatactatg tctatgagag gttaattcat 120
aaaggaaaga aaccaggttt ccttcaattg ttgggtacac agacagtcag tgccatctgg 180
catggactat agcctggata tatcatattc tttgttcaat cagcattgat gataaatggt 240
tcacgagtta tatacagatg gcatcatgca gcgagcagtt cattcctgag cggtatcctg 300
gcctttccaa attttgctta tacattgctg gtgcttaact actcctgcat cgggttccag 360
gtactgagct tca 373

<210> 15222

<211> 218

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-B6

<400> 15222

taccggtcag gagttcccg gtcgccccac gcgtccgaaa ataagcagaa acatgggatt 60
 aaaaataaaa aaaacaaaaa aaaaaaatTTT caaaaaccaa cagcaaatta ttaagtcaac 120
 agtggagtag agcagtagaa tacctgagtg gccctaggtg gcttgggcta atacacttag 180
 gatcgatggt tgtgacgcct gtgagagaag ggagggggg 218

<210> 15223

<211> 371

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-015-Q1-E1-B7

<400> 15223

gtaccggtca ggagttcccg ggtcgcccca cgcgtccggg acggcgacga gggcggaag 60
 caccagctca tcgcggccac cgtctccgac ggcaagctct acatctgcaa ggcgaggcc 120
 ggcgacaaga ggtggttcaa gggcgccagg aaggagtcg agaaggccgc ctctccttc 180
 agcgtcgcac gatgatgtaa ttttatttct tcgatgggat gggatgcacg cactacgtag 240
 agagcttggc taggccaggc ctggctgagc acgcttgtgt gttccttcga ctgtacatga 300
 gaacaaagac taaggagagc tccattcccg tacaaggatc gatttcttca gtcnagaaaa 360
 gaaaaggga c 371

<210> 15224

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-B8

<400> 15224

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 gagcgtgcag ccgtccgaca ccgacctcgg ggccaaggcg cccaaggatg tcaagatcca 120
 aggggtctgg tacgctcagc tcgagtgatt cgagtgtcta actgctacgt gtccgaccgc 180
 cgtcatggat cttgggaagg tgtatgtata ccatggaaaa ctttggatag cataggagga 240
 atcgtgtatg taatgtactt gttaatgcaa attcgggctg tcgctttttt aaaaaaacgt 300

ccatcacggc aaggatcatct tcgtcccatg ag

332

<210> 15225

<211> 193

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-C2

<400> 15225

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gcatcggcgg gctgctccgc ccggcgacg tggaggagtt ctacgtcgtc acgtaggcgt 120

tcccatcga ggaggtgttc taggtgcata tcggcggcgg cgccagcatg cgggaggggc 180

gcacgtcgt cga 193

<210> 15226

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-C3

<400> 15226

cgggtcgacg cacgcgtcta cagacacttg tgccaacgcg tgggttttat cttttttttt 60

gaatgccatc ttactagttt aattggtatt aactcagagt ctcaaactg cctcttggtg 120

cattgacaca catgtacaat acaatcgta ataatagtagc ttttatgcga caagcagcct 180

ctggatgcaa taatactaca ccccccgatt taattggact aatgcatgct gaggatggat 240

cagatggaga tgctgctggg gatgcccctc ccggtgactc gcagcttgga taaggccttg 300

agcaactcgt acggcacgat cccggcgccg cagctgttct tgagggtccag gttgttggtg 360

caatcgtcga ttaaccctc gatctccttc atcctgccgc cgaacttc 408

<210> 15227

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-C4

<400> 15227

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 ttgaagcaga gaaccctgca actgcaacaa gccctgacgc ttaatacatc ggccggcact 120
 cgatcggcag cagatcaaag atggcggcgg aggaggggga gaaggcgaag agcggcggcg 180
 gggggcagca gatgacgggtg gtgcgggggc tggacgtggc gcggtacatg gggcggtggt 240
 acgagatcgc gtcgttcccc tcttcttcc aaccgcggga cggccgcgac acgcgcgcca 300
 cctaccggct gctggaggac ggcgccacgg tgcacgtgct caacgagacg tggagcaagg 360
 gcaagcgca ctacatcgag ggcacggcct acaacgcga ccccgga 408

<210> 15228
 <211> 460
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB36-015-Q1-E1-C7
 <400> 15228

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 caggaggtcc ttcaccgtgc gtgcctctct ccgcaaggcc actgccaccg ccgccgtggc 120
 cgttgccgcc agcgtcctgc ttgccggcgg cggcgccatg gccangagg tgctgctggg 180
 cgcaggcgac ggcggtctg tcttcgagcc cagccagttc accgtcaagg ccggcgacac 240
 catcaccttc aagaacaacg ccggcttccc gcacaacgtc gtgttcgacg aagacgaggt 300
 gccgagcggc gtcgacgcct ccaagatctc gcaggaggag tacctcaacg cgccaggcga 360
 gacctactcc gtcaccctca ccgtgcggg cacctacggc ttctactgcy agccgcacca 420
 aggagcagga atggtcggca agatcacagt caactaaagc 460

<210> 15229
 <211> 342
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-015-Q1-E1-D1
 <400> 15229

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 ccactgccac cgccgcggtg gccgttgccg ccagcgtcct gcttgccggc ggctgcgcca 120

tggcccagga ggtgctgctg ggcgcaggct accgcgggct cgtcttcgag ccagccagt 180
 tcaccgtcaa ggccggcgac accatcacc cttcagaacaa ggccggcttc ccgcacaacg 240
 tcgtgttcga ctaagacgac gtgccgagcg ggcgtcgacgc ctccaagatc tcgcatgagg 300
 agtacctcaa cgcgccaggc cagacctacc ccgtcacct ca 342

<210> 15230

<211> 464

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-015-Q1-E1-D3

<400> 15230

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 cggtggagga gtgggtcaac acgcacggtc ccaacgaccg cacgctcgcg caggggctca 120
 agggtgaccc cacgtacctg gtgggtggagc aggacaagac gctggccacc tacgggatca 180
 acgccgtgtg caccacctc ggctgcgtcg tgccgtggaa cggcgccgag aacaagttca 240
 tctgcccctg ccatggatcc cagtacaaca accagggcaa ggtgggtccgc ggaccggcgc 300
 ctctgtcgct ggctctggtt cacgccgacg tcgacgacgg caaggtcctc ttcgtcccgt 360
 ggggtggagac cgacttcagg accggccagg acccgtgggtg gagtgcata ngacgatcat 420
 ccgacacaag ccgtgctcag tgctcatagg ctttctccga gggc 464

<210> 15231

<211> 268

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-D4

<400> 15231

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 agtaaaaaaa aaagaggcga cgctggaaat cgatctctgc ttcaacaatg gatcgtaata 120
 taattttatt atgcgaatat aaggcaagct agctatgtat tttttttatt aaaaaaatag 180
 tacaacaaaa tagaacacca gtgattgcac gtatgggctt atcactatct tctctttttg 240

cctaaaagaa aaaatttcca aagagaaa

268

<210> 15232

<211> 465

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-D5

<400> 15232

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tgcccgggat gaaggcgctc gacatgaacg ccgccgagga cgagatcgtg cgcctcacgc 120

gcgaggtcgt gcccggcattg atcgtcaccg ggatggaggt cgcagagatc gacggcgccc 180

cgaggatggg cccgacgttc ggcgccatga tgatctccgg ccagaaggcg gcgcacctgg 240

cgctgaaggc actgggcagg cccaacgccg tggacgggac catcccagag gtgtcgccgg 300

cgctgcgcga ggagttcgtg attgctcca aggacgacga ggtcgtggac gcctgagcga 360

gcatccacgc gccagcatgc aagcagcgctc ttatctgggc cggcgcatca cggggtttct 420

tcttttaatc tgggactttg ttgctgttgg acgaatgaat tccct 465

<210> 15233

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-D7

<400> 15233

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aggagctggc ccacttcccc acgccccgc cgcacacctc ccagttctgg ctgtggctag 120

tgacgtggca cctgggcctg ttcacgtgac tcaccttcgg ccagatcgga ttcaagggca 180

ggaccgagga ctacttcgag aagtgaagcg gttaagatcc tatccatcat ccctggtgct 240

gcgctgcgtt gcgttgctg cgtgctcgcc gctatcgaac ctttgctgta tacggttccg 300

atttcgtcga atgtaatgta tgatgctact tttgagcttc aatgtaaaat ctatgccgtc 360

cggccccagg agaaaacatg tgagcaatac aaagggcgg 399

<210> 15234

<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-D8

<400> 15234

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agccccgcga ggttgccaag atcgccacgc tcgtgccgcc gctgccggag cgcggcgggc 120
tgttcgccgt ccaggccacg ctcttcccg cgcgccgcgg cctctccatc ggcgtcaccg 180
tgcaccacgc cgctgcgac ggctcgggct ccacgcattt cctgcacacc tgggcgggtc 240
cctgcagagc cggcgcagaa gcgccgccgc cgccgccgcc tgtcatcgac cggtcactca 300
tcgccgaccc aaggcgcagc tacgacgtct tcatccaagg agcgcggagc actgaagagt 360
acgagttcgt caagatgtcc gccgaccagc tcttcgctac gttcgcgctg tccaatgacg 420
aactgaagcg catcaaggac gctgtggccg 450

<210> 15235
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-D9

<400> 15235

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gcacgctagc tagcttctcc agctctccgg gctctaacac gtagatgtaa accatctgct 180
acacatacgt acatagcgtg gtggacagaa atggatggat cagggctctc aggcgtgcgc 240
cagctccttg gagacgccgt cctggtacgg cgctcgcag aactcgccgc caaggtcatc 300
gcacgcctcg cccgggaaca ccgtccttgg ctgcgctag gacaggtaat ccctg 355

<210> 15236
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-E10

<400> 15236

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gttgggtgtt tgatggcgat gagcacctgt caggctactct aaggctcactt tctctcatta 120

aggtagtact gagttcattg catgactatg acttctgaaa atggacacat tttggctctt 180

ctgtctgagc gaagcataaa cgaagagcac cttgaggctt ctgaatctga tgctatgttt 240

tctgcaatta tgaaatccat tgattcacct aagaatgtac tttaagtatc acctgaggaa 300

gctgcctggg cagattcatg ctctgtgaca tcttctgaac tgtcatatga tgatctgcgg 360

atcgatgacg aatatgctgc ttgatgctct cgaaaatcca acagaaagtc acaatgataa 420

ctcagaaagt gcacataatg caat 444

<210> 15237

<211> 423

<212> DNA

<213> Zea mays

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<400> 15237

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gctcgtcctc ctctctcct cctggacagc agagcacagc acagtcacac cgagaaagaa 120

caagcagccg ccatcggagc tcggaaccac catcagcagc agcacacccg gtcaaccttc 180

cacacgcgca cacacacaca cacatggcgt ctacgagag gcaacagcag gcgggagcgg 240

cggcggcgtc ctccgccgtg ggcttcgagg actacctgcc ggtgatggcg gagcggctgg 300

gcgaggacgg gctgatgcgg gagctggcga gcgggttccg gctgctgatg gacccggcgc 360

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tgt 423

<210> 15238

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-015-Q1-E1-E2

<400> 15238

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 ccgatggagg cctgcgacct gcttgggtggc gacgcgtgca acggggcccat gttcccggag 180
 gccaaagcccg cctcggcggc ggccggcggc agcaggagtg tggtcggggg ggacagggac 240
 tacctgtcct acgacgagcc aaagacggtg ttcccgggcg aggcgtgcga tgaccttggc 300
 ggcgagttct gcgatgcgcc gtaccaggac ggcgtctcca aggagctggc gcacgcctga 360
 agaccctgat ccatccattt ctgtccacca cgctatgtac gtatgtgtag cacatggttt 420
 acatccacgt gttaagcc 438

<210> 15239
 <211> 251
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-015-Q1-E1-E3
 <400> 15239

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 tacatgcgtc tgtgttagt ttacatcgac cgcttacagc aggcagccat tgacattgat 120
 tgatgagcac acatcgatca tgagcatacg ccggctggtg caactactac acgcctacga 180
 tctgaacaag tagagtacag agaagaccac actgttcact cgacggacgg gccaacgaat 240
 tgatggatct g 251

<210> 15240
 <211> 414
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-015-Q1-E1-E4
 <400> 15240

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 tagctgcaga ggagcgagac agtatcagga ggaggacgag aggaagaaga gatggcgggc 180
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ggaggggatcg cacccaagaa gcccttgata tccaaggacc acgagcgcg cttacttcgat 300
tctgcggact ggggtgctggg caagcaagcc gcgaacagca tcagcagcac gaggaccgca 360
accgcgggtcg agtctctgga acccaacctg aagagaacgc cgcagcacca gctg 414

<210> 15241

<211> 301

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-E5

<400> 15241

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atgacaatgc tgttcgaaag cagtcttcgt ccgtctacaa ggactactat gtactatcat 180
cgtcaagaga gatagagaga tgacgaccac atgaacagtg cgattatcaa gtggaagttt 240
gcttgtaccg atgatgatag ttgccgggtgg aatcgactag gctcagttca gtgtgatctc 300
t 301

<210> 15242

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-E8

<400> 15242

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tggtgagagc aagtgaacgc atgcgcactt ggaggagaca acgtcacatg ataaggttgt 180
tcaaggcgtt gatcaagtgg acgtagcggc ttatcgacaa gcatgttttg gtccctggaga 240
gctacaacaa gaaagtttct ttcgctcaga tacatctcca ttttgttctg aagctcatat 300
ttgggaatac aaaagaatcg aaaggggaaa aggcagagag gattgttggt ctcaactctc 360
aagtcagtac cagcagcaca gttgaatggt tggttaattg gtgggagaag cctggagag 419

<210> 15243

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-F1

<400> 15243

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acgcgtgggt ttgtatatcc aagccactaa acctgaccaa acagttcaca gtcaaatact 120
gagtatagca tatataaaat gttggttgcc tgatcagtgt aaaagaatgc tgcaaatgcg 180
tgtgatcgat aatatcagct ctcttcgggg gctatggttg cctgatcagt gtaaaagaat 240
gctgcaaatg cttgtgatcg ataatagcag ctctcgtcgg gggctatgga tagcaatata 300
aagcgttctc tgccctgtga caacgtggga gaacgaattt tacctccggc cttaatctgt 360
aatataacat ctcaccagc tgtggt 386

<210> 15244

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-F11

<400> 15244

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cgtcgtcgca gggcatccgc tgcgactaca tcggctccgc caccaacctg atcatggtga 180
cgacgacgac gctgatgctg ttcgcggggc ggttcgggct ggcgcgcg cggaaccgca 240
aggcgacggc ggggctgaag ctggaggcgc gcgactccgg cctgcagacg ggtgaccccg 300
ccgggttcac cctcgccgac acgctggcct gcggcgccgt cggccacatc ctcggcgctc 360
gcatcgctgct cgggctcaag aacaccggcg ccctcgacca gatcatcggc tagatcccta 420
cgtcgtcggt gttaagatca gactcagcag 450

<210> 15245

<211> 443

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB36-015-Q1-E1-F4

<400> 15245

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atcgacgacc tatgtataaa aaaaagagaa attttttggga tttgaagaaa aaataaaagg 120
aattctatca atttttatct tccatttatt tagtttagttt ttcttaatga aattgaaatt 180
attaactaac agagcaaaca caaataaaga aacaactttg ctgaccatga tagattttta 240
tctagttgga agagtcctct taatattcat ctagtcttat ataagtttgg gtatatagaa 300
atacaaacag aaaagagagg atagaggata ggctcattac ataaaaaaaa gatatggaaa 360
tagccataat acataacaaa aaagaaaaaa aggagcggga gagccaaatg aatcgaaaga 420
ttcatgtttg gttcgggaag aga 443

<210> 15246
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-F5

<400> 15246

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gatttgaaat cacatatctt ctcgagttgc cggagccttt cagtttcatc ttcacatgg 120
tcgccgcact gcctttaata ttttgggtag cgcagcgat cactaatgtc atagtgaagg 180
acttctgat cttgaagggt ccgtgtccaa actgcgggaa tgaaaacctc tccttcttcg 240
gtaccatact gtcagtgcct agcgggtggct caaaaaacag cgtgaaatgt gcaagctgtg 300
gcactgagtt ggagtacgac tcatcaagcc gattgatcac actcccagaa ccggctgagg 360
cttaataagt gatggcgtgg tttcgatttc gctagcagga aagatggccc ggcc 414

<210> 15247
<211> 395
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB36-015-Q1-E1-F6

<400> 15247

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ggcgtcgtcg agcgggctga ggagctgcag cgccgtgggc gtgcccagcc tgctggctcc 120
gtcgtcccggt tccggccgcc tggcgccgtt ctgcgccaac gccaccacct ctggccgcgt 180
caccatgtcc gcggagtga tgcccgcca gccacgccct gccacctcg acggctcttc 240
tcccggggac ttcggcttcg atccgctggg cctcgcgacc gtgcccggaga acttcgagcg 300
gttcaaggag tcagaggtgt accactgccg ctgggccatg cttgccgtcc ccgggatcct 360
ggtgccggaa gctctgggcc tngcaactg ggtga 395

<210> 15248

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-015-Q1-E1-F7

<400> 15248

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ccagcaaaag agatcgagag gcaggagtca tggccaccgt cagcgccgcc gtggtgacca 120
ccatcgttgc ccgcgcccg atcgccaggc ccaatgtctt agggctgcct gcgctgaggg 180
cgaggagcga gaggggtgcg tgcagctacg ccaaggacgc ggccccagtc agcaccaagg 240
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tggcgctcgt ggacgagcgc atgtccacgg agggcaccgg gctgagcctc gggtcagca 360
acaacctgct ggggtggatc ctctgnggg tcttcggcct catctggtcc ctctacacca 420
tctacacctc tgacct 436

<210> 15249

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-G1

<400> 15249

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agcgccgccc tggtgaccac catcggtgcc cgcgccgcga tcgccaggcc cactgctcta 120
tggttgccctg cgctgagggc gacgagcgag atggtgccgt gcagctacgc caaggacgcg 180
gccccactca gcaacagtgg gctcatgctc gtcgctgctc gccccaatct ggcacggtga 240
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gggcttagcc tctggctcag cagcagcctc ctgggggtgga tctctcttga gggctcttccg 360
cctcatctg ggtccctcgt acaaccatct aca 393

<210> 15250

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-G2

<400> 15250

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ttgagcaagg ctgtctacaa tctgcttaca gcttatacac atttagaata gaaagcatag 120
cccatgggaa acctgcttca gtggatgaac tgcaatttca tgggtgtccat aatccagatt 180
ttccaagaaa gggtataacc agagaagcct ccaggagcat cagagaagtc caaagttggc 240
aaaatagatt gtactccgag gaaggctcct ctcatgttca aagtagtgga ttacactcac 300
ctagtgcaaa agtcagagct tccccaatct gtgctgcctt tgattccaaa ggtaaaattt 360
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<210> 15251

<211> 166

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-H1

<400> 15251

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cgttacgatg aataacgctg ggaactgggt agtggtgtaa caacatgata gaactactcc 120
tcgaatcact tcagtcacat ggctatacac gtgcgggtcat cctccg 166

<210> 15252
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-H10

<400> 15252

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ctgatcgacc tgtactacga ctggcccagg ggccgcaacc tcaacctcat ccgggaccag 360
ctctccagcg acccgctcta cgacgtcgag tggaccaacg gcacctccta cttcttcgac 420
tccgggtcct gccgcacat gcgtttccc 449
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<210> 15253
 <211> 348
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-H2

<400> 15253

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cccacctatc caaaacgacc gcgcgcggcg cctctctccc gcggtgccac cagcaacagc 180
aactcgtcgg atcatcatca caccgatcgg catctatgca gctcccgcct ccataccgc 240
gagcggcgat ggcaatggac gcggccgtgg ccgtgaagag cggcgggtggc agtgccggat 300
cgaccggggg caccgcagag gcctcgcagt ccccgaggc tgcgacta 348
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<210> 15254
 <211> 446
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-H5

<400> 15254

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aaccttgccct ccttctccct cgcggcagca tcagcgtctg gttattttct gcctcgctgc 180
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cggtgactgg cgccacatcc gctacaaagt cgcgcgcct ggggcgatcg agagagtctc 360
ggtaactgca gtatccatcc attgcctcca cacgacacac cccctgtctg gcactggcac 420
tcacgttcga ctctccaca ggagga 446

<210> 15255

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-015-Q1-E1-H8

<400> 15255

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tggcctcgcg atggccgcgc cgactacgac cgcgcgcacc gccctacgc ggctcccgcc 120
cccgccggtg agtacgaccg cccctaccgc aacgaggtcg tgccctacgg tgaccgccgc 180
atcgacatca tcgtcaagcc gccgcgatg tcgccgccgc cggtatccac caggggcggc 240
gggggagggg tggggtcggc gtggtgcttc agcgatccgg agatgaagat gccgcggccg 300
gtggccagct acaag 315

<210> 15256

<211> 251

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-016-Q1-E1-E11

<400> 15256

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 tcacagatgt ggcaaactat acggaatgaa caatattcta tacagggcac ttatttcata 180
 gccagatgtg acaagcattt tcagttcgta cctgatctgc cgctgtaag cgttcacaga 240
 cttgaagttg a 251

<210> 15257

<211> 60

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-016-Q1-E1-H12

<400> 15257

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<210> 15258

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-A1

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acacatcgat catgagcata cgccggctgg tgcaactact acacgcctac gatctgaaca 180

agtagagtac agagaagacc aactgttca ctcgacggac ggacgaacga atggatggat 240

ctgatggtag tacacatgta cggcggttgc cagtcagtta gttgccgggg acgaagtctg 300

tggcgatatgc ccaggcggtg ttggcgacgg ggtcggcgac gtggtcgaag aggttctcga 360

tggggccctt gccggtgacg atggcctgca cgaagaagcc gaacatggag aacatggc 418

<210> 15259

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-A11

<400> 15259

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 cggcagctgc tgggcccggc cgtgcagtcg gccgtctcta ggctcgtcggc gacgaagggtg 180
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 ttogacccgc tgggcctctc ggacccggag ggcaccggcg gcttcatcta gcccaagtgg 360
 ctggcctatg gcgaggttat acaaggccgc tacgccatgc tgggcgcggt gagcgccatc 420
 gcaccggaga tcttcagcaa gatgggcac a 451

<210> 15260

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-A3

<400> 15260

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 gctcttaact aaaggatatc ttcactggaa accagtagag aagcaggatc tatcactcaa 300
 gcatcacatt agttctgact tgcgcttacg tcacgttac atctgcccat atgttattga 360
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<210> 15261

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-A4

<400> 15261

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gcggagggaa ggtcatcctc ctgctgggtg aagccattga gatgtttctc attgcaacgg 180
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 acgggtccaa cctcctcggc ctgttcagcc ttccggaacg ggccaagtgg gttgaaatca 300
 agtcggtaaa tgatctcaag acaaagctgg gccatgtcat tgtcaagggt cctctgggtg 360
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<210> 15262

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-A8

<400> 15262

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 ggagcgcgcg tcgtgctacg tgctttccac ctgccgcgtg cgctcgtcgg ccgggttctg 120
 cacgcacttc tgccctcgcg gggcgcagtg ctccggcgac cctgtcgcgc tccagctccg 180
 caacgcctgg ctcaaccgcc tggccggccg ccggtagccg cccgtcggca gctgctgcta 240
 ctgatactac taataggatt cgatgctcca aggaccaaatt gcaatgatgc ctctctctcg 300
 ctggcaagaa cgaggaagag aagcttgcag attggatttg aagcagggga ggccaacata 360
 tcttttcgtt ctcccgaat tggatatcaa ttgtacagat tagtgattgt aaatttgcgt 420
 agtcaatcaa gaagcaattc atcgag 446

<210> 15263

<211> 494

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-B3

<400> 15263

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 gctgcggctg cggtcaagc tgcaagtgcg gcaagaagta ccctgacctg gaggagacga 180
 gcaccgccgc gcaggccacc gtcgtcctcg gcgtggcccc ggagaagaat gccgcgccg 240

agttcgtcga ggccgcggcg gagtccggcg aggccgcca cggctgcagc tgcggtggca 300
 actgcaagtg cgaccctgc aactgctgat cacatcgatc gacgaccatg gatatgatta 360
 ttatctatcc agcttgtggt ggtggttgaa caataataag ccaggccgag ctggctgccca 420
 tacataggta ttgtgtggtg tgtgtgagag agatagacac agagttcttc agtctgctat 480
 ctctctctgc atgt 494

<210> 15264

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-B4

<400> 15264

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 aatgatagaa aattaactaa taaccaacct attgcttcgt attgtcgaga tcctaactaa 120
 gaaacagtca ctatgtgaat aaatacatct atcaaaaatg agtagatcta tcatatagtt 180
 gtagcaactg catttttttc tctacaaaag aaacctgatt ctaggctgtg aagcaaaact 240
 aaagggatgt ggataaaagg agggatgata gataaaaaaa aaaaagaaaa aaaaagaaga 300
 aggaaaaaac aaagaaataa agtgaaaaag aaaagataga c 341

<210> 15265

<211> 75

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-B7

<400> 15265

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 aatctcgttt caaag 75

<210> 15266

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-C1

<400> 15266

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tgcgctggac gaatttagct agtctgatcg aattgaatcg tcgtgcagtt ggatgactgg 120

gtgctgtgcc ggctgtacaa caagaagaac gagtgggaga agatgcagct ggggaagacc 180

gccgtcgccg gcgtcggcgc caccaaggag gaggcgatgg acatggccac ctgcacacg 240

cactcccact cccaatcaca ctgcactcgc cactcgtggg gcgagacgcg cagccagag 300

tcggagatcg tggacaacga cccgttcccg gagctggact cgttcccggc gttccaggac 360

ccggcgatga tgatgacggt gcccaaggag gagcacgtgg acggctgcag cgccaagagc 420

ggcaacctgt tcgtggacct cagctacgac gacat 455

<210> 15267

<211> 234

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-C4

<400> 15267

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agcatagttt ttgttcaaac acattatcat ttatggtttag aatatctgtg tatatgtagt 120

ggtatagtca atggggaaat cgttcctgcc tctaaattcc tttttttcaa gttaagggtg 180

ttcttttgtc gcaagttaat ctgcctgggtt attaagatat tattgtttac aaaa 234

<210> 15268

<211> 143

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-D1

<400> 15268

cccaagcgtc cgcagacgcg tgggccagtt ttctctgctg gatgtgatgt atccattggt 60

gcaagcatgg ccttgcattg gctaccteta tacctgctgc taaaaaaaaa aaaaaacaca 120

aaaaagaaca aaaaaaccaa aca 143

<210> 15269

<211> 315
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-016-Q2-E2-D12

 <400> 15269

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 gaattcacgg atggtggatc cggctactact gggtttgccc actggcttgg acaatgtctg 180
 ggctcatcgt gacacagttt ggacacctat aacaactcat cttactcggg gcagaaagtg 240
 agtacgacga gatgctgcta tgtaatacat gattttggat accataacga ttttctgcca 300
 ctcaactccgc cgggtt 315

<210> 15270
 <211> 460
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB36-016-Q2-E2-D9

 <400> 15270

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 gccagcttgc catggcgccc accgtgatga tggcctcgtc ggcaaccgcc gtcgccccgt 120
 tccaggggtct caagtccgcc gccagcctcc ccgtcgcccc cgcgagcacc aggagcctcg 180
 gcaacgtcag caacggcgga aggatccggg gcatgcagggt gtggccggcc tacggcaaca 240
 agaagttcga gacgctgtcg tacctgccgc cgctgtcgac ggacgacctg ctgaagcagg 300
 tggactacct gctgcgcaac ggctggatac cctgcctcga gttcagcaag ctcgggttcg 360
 tgtaccgga gaactccacc tccccgtgct actacgacgg ccgctactgg accatgtgga 420
 agctgcccac gtccggctgc ancgacgcca cgcaggtggt 460

<210> 15271
 <211> 458
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB36-016-Q2-E2-E11

<400> 15271

taagaaggat aaaaaggcca aagaaaagga tggatcggaa ccaaagggtg acaaggatga 60
agatggtaag aagaaagagg ccgatggcga tgaagacgaa gaaggtaaga aggaggacaa 120
ggaaaagaaa gagaagaaga ggaaacacaa ggggtgcaaag gagaagacga ttgatccggt 180
gaagctgaag gcaaaactgg agaagattga tgccaaattg catgacctac aggccaagag 240
agaagacatc ctgaggcagc tgaaagagct ggaagaaggc ggcaaggga acgcgaatga 300
agaggagcct gcacatgtgc angaggacaa agggaaggat gttgtgcctg cacagatact 360
ggaacagggt ggagagagca aggtcganga acagaatcct gttgccacag cctgatcttg 420
tggagattct gtancggttc atgtaacaat aactctga 458

<210> 15272

<211> 228

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-E12

<400> 15272

cggacgcgtg ggcgacgcg tgggcttctt cttctagttc ttatattaat aattaagcta 60
gctgctggat gcatggtttg atctaaatat atgtggacat ggatgtgtaa ttttagtaat 120
ttcttggtga ccgtggaggc gcagcgtggg actctatgta catgtgcatc tgctcctcat 180
gtctatgcat atgacaacgt tgccataaca cctgaatctt tcaataaa 228

<210> 15273

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-F12

<400> 15273

gcggtcgac gcacgcgtct acatcgacta cgtctcagac cccgtcgcca acaacgcctg 60
ggcatacgcc acgaacttgc tccccggcaa ctaactgact gagcaacgcc gtacatgtgt 120
actaccatca gatccatcca ttcggttcgtc cgtccgtcga gtgaacagtg tggttcttctc 180

tgtactctac ttgttcagat cgtaggcgtg tagtagttgc accagccggc gtatgctcat 240
gatcgatgtg tgctcatcaa tcaatgtcaa tggctgcctg ctgtaagcgg tcgatgtaaa 300
ctaagcacag acgcatgtat cgtcatcagt ggatgaatca atctatcgat ggctgtgcc 360
attcattttt gaaa 374

<210> 15274

<211> 62

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-F8

<400> 15274

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cg 62

<210> 15275

<211> 120

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-G12

<400> 15275

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tgtctctctg tctccgggta ctttccctgt ttactatgc catgcacata gacattgcc 120

<210> 15276

<211> 474

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-G3

<400> 15276

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catgaaggaa acaccgccgc cgccgcgcct tccattccag tactcgcgga ggaaatgaac 120

accagccagc gccatgggtca cgtcgacgac cgccgccgcc gtgctgtccc cgccgtccgt 180

ggccgggctt cgctgggcgc cgtctccccg ggcgcgcgtg gcgttccgcg cggcgcgggc 240

gcggcggtcc gtggcggcgc gcgcggagct gagcccgtcg ctggtgatca gcctgagcac 300
 gggcgtgtcg ctcttcttgg gccgcttcgt cttcttcaac ttccagcgag aacgtggcga 360
 agcaggtgcc cgagcagaac ggcaagacgc acttcgacgc cggcgacgag cgcgccaatg 420
 agttctcggg cctgctcaag ttcaacgacc ccgtgggctt caacctcgtc gacg 474

<210> 15277

<211> 471

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-016-Q2-E2-G5

<400> 15277

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 tgctgaccct gagcttggtt gctttgacta tgctgattca gaagagagat taagtgatat 180
 atcagatagt ggtctttcca tgggtacaga gacggatggt tcagtaagca gtatagttga 240
 gttgacacgt tttcaggagc aggaaaacat acctagcact ctgaaagaac aagagagtgc 300
 acgaaaaatt ccaaagatc agttgtccaa ggtggccacc cgagttcaga agacaacagt 360
 acccaaacta gctcaaactt ccttgtggcc taaactaaga gatcctccag cccttagatc 420
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<210> 15278

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-016-Q2-E2-G7

<400> 15278

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 gtgtgctctc catggccaac gccgggcccc acaccaacgg ctcccagttc ttcattctgca 120
 ccgtcgcgac cccttggttc gacggcaagc acgtcgtctt cggccaggtc gtcgagggca 180
 tggacgtcgt caaggccatc gagaaggtgg gcacccgcaa cggtccacc tccaaggtgg 240
 tcaaggtcgc tgactgcgga cagctctctt agatctctct gatctggtct gttcggccgc 300

cctccctccg tcatcgctga cccccctgc gtccgttcct ttggatctga ataagatggg 360
 ggtgatctga gtgggtggtct taggttatca tgtatcgctc gcagtttaat ttagcgggtt 420
 acgtgtggat ctgtaacccc atggcgctc tgc 453

<210> 15279
 <211> 450
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-016-Q2-E2-H3
 <400> 15279

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 tccgtcaccg cccgcgcccc ggctcgcgcc ctgcgcccgt cggcgctctct caagtcgctg 120
 tcgtcgctcg cggcggcctt ccttggccac tctagccgcc tcggccgcac tgctaccgcg 180
 tcgccgacga ggcgagcct aaaggcggag gccaaagggcg agtggctccc gggccttccc 240
 tccccgcct acctcgacgg cagcctgccg ggtgacaatg gcttcgacct gttgggcctg 300
 gcggaggacc cggagaacct gaggtggtac gtgcaggcgg agctggtgaa cgggcggtgg 360
 gcgatgctgg gcgtggccgg gatgctgac ccggaggtgc tgaccaaggc cgggctgac 420
 aacgcgccgc agtgggtacga cgccggcaag 450

<210> 15280
 <211> 408
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-016-Q2-E2-H5
 <400> 15280

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 ccttcaccgt gcgcgcctct ctccgcaagg ccaccggcac cgccgccgtg gcaatggctg 120
 ccagcgccct gcttgccggc ggtgccatgg ccaggacgt gctgctgggc gcaggcgacg 180
 gcgggctcgt cttcgagccc agccagttca ccgtcaaggc cggcgacacc atcacattca 240
 ggaacaacgc cggttcccc cacaacgtcg ttttcgacga agacgaggtg ccgagcggcg 300
 tcgacgccac caagatctcg caggaggagt acctcaacgc gccagccgag acctactccg 360

tcaccctcac cgtgccggga acctacggct tctactgoga cccgcatac 408

<210> 15281

<211> 465

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-A1

<400> 15281

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gacgacgtga acgcggcggt ccgcaaggcc gccgccggcc cgctgcaggg catcctggat 120
gtctgcgacg tgccgctcgt gtccgtcgac ttcaagggtc ccgacgtgtc ctgcaccatac 180
gacgcgtcgc tcagcatggt catggggcgac gacatgggtca aggtcgtcgc ctgggtacgac 240
aacgagtggg ggtacagcca acgcgtgggt gatctggcgc acctgggtggc ggccaagtgg 300
cccgccgcgg cggcgccggg cagcggcgac cctctggagg acttctgcaa ggacaacccc 360
gagaccgacg agtgcaagggt gtacgaagca tgaggccacg gttctttcca cgacgggacg 420
tacagcacgg gcgcgagggg tttcttcata gagaataata tacag 465

<210> 15282

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-A11

<400> 15282

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cgccccgggt tctccaccag cttcacgcgg gccagccggg tgtcggcgag gaaccccctg 180
atgagcagga acctggagag gaatggcagg atcacctgca tgacgtttcc ccgggactgg 240
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gtccccggcca tcaacggcaa cagcctcacg gggctcttct tctccagcat cggccaggag 360
ctggcccact tccccacgc cccgcccgtc acctcccagt tctggctgtg gctagtgcg 420
tggcacctgg gcctgttcac cgtgct 446

<210> 15283

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-A4

<400> 15283

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gttagggggg cctggcctgc tgcccctgca tcgtctgacc ctgaagatgg cggcagcagc 120
atccatggcg gcccgtagcc gcgcgctcgt tgcgagcagg aggaggatgg gtggcccgcc 180
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aaagattttg ggacctccca cgaccttcaa tgcagcgaag ctcaagggtg agttcgccgg 300
ggaggagctc cggcctcctt tccccagagc ctacactctg acccactgcg acttgacggc 360
gaacctgacg ctgggcgtga tgagtagcga gcagctgcgc aagtccacgc tgc 413

<210> 15284

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-A7

<400> 15284

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ttcaaaagag tagacgtaat gttgtacaga gcaaactttg gcgctgaagt gaattattta 120
aagaaatctt ttggaacgct agaggcagct tgtacagatt taaggagcag caagctattc 180
ctgaagttgc tagacgcagt gctcaagact gggaaccgca tgaacgcagg aactaaccga 240
ggcgaggcga gggccttcaa actcgacacc cttctaaagc ttgcagacat caagtcgacg 300
gatggaaaaa cgacagtgct ccatttcgtg gttcaagaga tcatccgata cgaaggcttg 360
ggttccgata aagcagcagc agcagcagcg aatcctggaa gcaacagc 408

<210> 15285

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-A9

<400> 15285

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cctttctcta ctgactgggg cgcacctgaa cgaccagaga ggcgaggaga acatgtactt 120
cggtagcttc tgctacgtgg tgaagccggg tgtcttctcc gggggagcgg tgctggccct 180
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gccggcgctt gcagccccgc agaaccaggc catcgcgatg ggccagcccg tgatcatccc 300
gcagcagagc agcgagccgg tgttcgtcca cgaggacacg tacaatcggc ggcaacaggt 360
cccgtgacct gacctgacca cacagaggtc tgtggttggt tgtgcttggt 410

<210> 15286

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-B1

<400> 15286

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atgctcgtgt cttgatcaag cagcgtcaca tcagggttgg caggcaaatt gtcaacgtcc 120
catcattcat ggtgaggggtg gagtctgaga agcacattga cttttcactg tcaagcccat 180
tcggtggagg ccccgagga aggggtgaaga gaaagaatca gaagaaggca agcggtgggc 240
gggatgctgg tgatgaggat gaggagttag gatggacaag tagtggtaca ccaatataat 300
aatattatct agttttcttg aacttggtcg aatgatgagt gcttagctgt gtgatctgac 360
gcagagtcct ctgtgctgac tctgtgtcag ggatgggtcca ttttatcctg tggattatc 420
acct 425

<210> 15287

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-B12

<400> 15287

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 agcagggggc cagggccagc gtgttcactc ccttcggcgg ggggcctcgc ctgtgcccgg 180
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 agggtagccc atcatcctgc ggcggcgacc ggggtgggat gtctgacctc atcatgttac 360
 aatagagtcg atccatctat agttgttacc ctcatctctc tctctctctg tctgtttgta 420
 ataacactac tatctaatat aaacaagcat etc 453

<210> 15288

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-B8

<400> 15288

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 ggctcgtcgc gcaaccgcgc tgcgccggtt ccagggtctc aagtccgccg ccagcctccc 180
 cgtcgcggcgc cgcagcacca ggagcctcgg caacgtcagc aacggcggaa ggatccgggtg 240
 catgcagggtg tggccggcct acggcaacaa gaagtctgag acgtgtcgt acctgccgcc 300
 gctgtcgacg gacgacctgc tgaagcaggt ggactacctg ctgcgcaacg gctggatacc 360
 ctgcctcgag ttcagcaagc tcgggttcgt ggtacgcgag aactccacct cccgtgctac 420
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<210> 15289

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-C10

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cttcgacgag cttagagtat aggaaacatg tgcagatddd tctctdddttg ttatatgttt 120
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cttdttgtca gatatggtgt ttattttccc ttgatgtggg tggcaagata tgggtgatga 240
tgtacgtacg atggtttacaa gtatgtttgt agcataattg ttatggcaac .aaaaaacggg 300
agcgaaggaa gctgagacgg gaggaagacg cggatatggaa t 341

<210> 15290
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-C12

<400> 15290

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acgggtcggg ggtgtggggc aagccctact cgttccgcgc gccgccgtcg ccggggcagc 120
cgtctctgca gcgcgtgatc gtgttcggcg acatggggaa ggcggagcgg gacgggtcga 180
acgagtacgc ggcgtaccag cccgggtcgc tcaacaccac ggacgcgctg atcgcggacc 240
tggacaacta cgacatcgtg ttccacatcg gggacatgcc ctacgccaac ggctacatct 300
cgcagtggga ccagttcacg gcgcaggtgg cgcccatcac cgcccgaag ccctacatgg 360
tgggcagcgg caaccacgag cgggactggc ccgacacggc ggcgttctgg gacg 414

<210> 15291
<211> 164
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-C2

<400> 15291

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tatccgggtga cctcacacg attcatcaag gtggtgagcc tggctattaa atcgggtgct 120
gttdtdtdttt tgggtaaaca ttggcaatgg ccttactgtc aaaa 164

<210> 15292
<211> 368

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-017-Q1-E1-C5
 <400> 15292

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gcatcaaatt cataaacata ggtgactcta catttacgcc agtaactata aatggatgct 120
ctttgggtcta tattccaaat gtgggagaca tcacaccagc tttgaagtat tgcccgtctc 180
cattgtgaac actctgcagc atatgtagca gataaatgag tgaaactatt tgtactgcct 240
gctctgcaaa ttagtatgaa caccctcaa aaagatttgg cccacactct ggtctctctg 300
tttgcagctg ggaacagga gctccagagc ttgtgaattc tatagaagta aggtgggtgt 360
ccgcacag 368
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<210> 15293
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB36-017-Q1-E1-C7
 <400> 15293

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aaaatccact tcatacttct catgggttttg cactttctca agcatgtcca gggaacttat 120
ctgggtgcat tttgacgcca cttgaccttt gcgatggacc ttcgaactcg gatgcacttt 180
ctattgggta tacaggatcc aacacaagtg ggtaggtct tccaaacaat aactgctctg 240
ttgggtgctac tcttcttaca tcaaatatga acttaagatt accagggttct cctgggtatgg 300
ttttgggaag caattcacca ttgcctttga atgctcnctc tagggatgtt cagagggtatg 360
gtgtgcctag gacaacctcg atacaggggtg acgagcaatc aagaattcat tataaccaga 420
tggtaaa 427
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<210> 15294
 <211> 256
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-C8

<400> 15294

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gcggtgctca gtgctcacac atgagaccta cgtatgcctc cgttccttgt gatgaggaaa 120
tatgcttgcg ttcgttctcc gtgggcgttg ttctacaaa ttcacttgct ttctgtctct 180
ctctctatat acacactgta taaaacaaga acagctgttt atcatctctt cttatataac 240
cttttgaaca ctctga 256

<210> 15295

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-D11

<400> 15295

ttcgcgggtc gacacacgcg tccacatagt tgcattgtcaa acatgtcagg aacaccttgc 60
cccatattca agtatttata gggcatggtc cagtaaagaa tactccttgc cctcgagctc 120
taatcaataa ccaactgcaag gggcatcca agtgcccacc tcgccgcggt caagcaatca 180
caagcgattc ccagctgta cagtgcattg ttctgtttct ccttagaaca cctaaacgag 240
gtggtatttg aagaagtcta ctccaatgcc tgctcctcaa gtggatgaag ccatctaact 300
gggtattgga tagagggatc tagaaccact tcaactgcaac aaaggatata actttgtgct 360
gctgtgatgg tgttaagtgc cgttggggtc ggccttctta tataagtata ccccgctctt 420
atcttcttac tgaggatggt ca 442

<210> 15296

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-D5

<400> 15296

ttcgcgggtc gacgcacgcg tctaccacag cgttctgaga caacgcaacc cccaaaccca 60
aaaccctacc acggcgccca tggcttcgcc gccgcgcgcg cctcctcctc ctgcccggca 120

ccccacctcc gcagcaactg ccgctgcggc gggcaatggc cacgacacct ccgcagcaac 180
 cgccgctgcg gcgggcaatg gccacgacac ctccgcttcg ccggtggacg cctctctcct 240
 ccagaacctc atgacctcgcg tccagctccg cccgcccttc ctgacacca actcattcct 300
 cactcaggac cttgacgact tcctcctcaa cgagttcgcc gcgctatccg ccgctgcagg 360
 ggcgtcggat gatgacgaag acgtggagga tgaggatggg gggctcgctg gc 412

<210> 15297

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-E1

<400> 15297

tcgcgggtcg acgcaagcct ctacacatga cgtcctgagg agactgatga cgaaccagag 60
 cgagcctaag ctattatcac tggaagggtg caggacctgc tgctctctac tctattcggc 120
 gactgatgac gaaccagagc gagcctaagc tattatcact ggaagggtgg aggtccacga 180
 agaccagcgc ggcgtccag aacacctcta gtaagggtgca gagttgatgt ggcgtgatg 240
 tatctttcta agttattgta agccggtctc tgtcttcaca actgacgac tgtgtgtggt 300
 acgcaccacg cacgcaagtc gcggttggtc gtgtacgtct gaactctgga gcattgggtt 360
 gttgtaccaa cataatgagt cacaaaag 388

<210> 15298

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-E12

<400> 15298

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 ccaggctcat caggaacgcc gccgccgtct tcaccacaac cccctccacc cttgtggcca 120
 tgggcgacgc cgtggagcac ctcaagagcg ggttcagaa gttcaagacc gaggtgtatg 180
 acaagaagcc ggagctgttc gagcctctca aggccggtca ggcccccaag tacatggtgt 240
 tcgctgctc cgactccgc gtgtgcccg cggtgacct ggcctgcag cccggcgagg 300

ccttcacCGT gcgcaacatc gccgccatgg tcccggccta cgacaagacc aagtacaccg 360
 gcatcggggtc cgccatcgag tacgccgtgt ggcgcctcaa ggtggagggtc ctCGTgggtca 420
 tcggccacag ctgctgcggt ggcatccg 448

<210> 15299

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-E2

<400> 15299

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 cattggaaat agaagcgcgc acagagagag agagagacga tggcagggcg gtgtctgaaa 120
 actccacgct tacatgaact gcgctcaaat gaaacccaag cagtacgtac gcgcgtactc 180
 aaattacaca caacgacaca cagagatata tagagagaga gatggatggg catgattatg 240
 cgccggtgag ctctctctcc ttgtgcgtct cgatgacgac gtcagaagtg gggtagcgt 300
 ggcaagtgag caccagccg tcggggatct ggccgtcgtc caggtagctc tggtcggact 360
 ggtccacgga cccgggacga cctgcc 386

<210> 15300

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-E6

<400> 15300

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 caatccacgc ccaacacagg cgggtggacac aaccatcca ataatctttc atgagtacag 120
 tgtcggagtc atcggccaat ttcttcaaaa ttatcattaa tttatgatgt tcatgtaact 180
 atagtcgtag gataaggcag ggccggtttg gtttcatcac gcggatggga gcaacttctt 240
 gacgatctca tcactgagcg aggcgatctg ggcgtccagc gccttgacag cctctctc 298

<210> 15301

<211> 455

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-017-Q1-E1-E7

<400> 15301

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aagggaggtca atagaaggcc gttatatgaa agtcactctc tatcatcatt ttcattggacc 120
cgaactgaca gtatggatat gggggattgg tcaaagaaat gcaaggaagc attaagcaag 180
tttgagctgc tgaaggaagg gaagagtaaa gaggacattg tttatgaaaa ggctgttcag 240
atattacacg gtacaaagga tgagggtgat gacattgttc aaagtgtctt taagtccagt 300
gatttgaagg gtctccatgt ccaatgtctt acagatatat ggataggcag agagagggtt 360
gcttttgttg atctgagtgc anggecatth gcctgggggc cttctgttgg tggatgatgt 420
gtccgtacag aacttagtct gccaaatgtt gcaaa 455

<210> 15302

<211> 450

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-017-Q1-E1-E8

<400> 15302

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agattcctca gagagctaga attggatgat gatgcactca caaaagctat tattggaacc 120
ataggcgatg ttgacgcta ccagctacca gatgctaaag gttacagcag cctaattgaga 180
tatttgctgg gcatcacgga tgaggaacgc caacaaagac gtgaagagat actagcaaca 240
agcccgaagg atttcaagga gttegtgat gctgttgaaa ccatcaagga caatggggtc 300
gtggttgccg ttgcctgat agatgatgtt gaagctgcga ataaggaaaa cccgtattc 360
cctgaagtaa agaagtgtct gtgaggtcna ccaccacttg ataaggattc tagtcgggag 420
gtgttttttn tacagtgaat gcggagtgtg 450

<210> 15303

<211> 371

<212> DNA

<213> Zea mays
 <223> Clone ID: LIB36-017-Q1-E1-F12
 <400> 15303

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 tccatgaccg gcctctcgca gggcggttctg cccagcaggc gcgccgcaa cagggccagg 120
 acggccgccc tcgtcagggc gtccgccgag gcgcaggcgc aggcgggccc ccgcgccgtg 180
 ctccgggtgg tggccactgg catcgtcggc ggcgccttgt cgcaggcggt gcacgccgag 240
 accgtcaaga ccatcaagat cggagccccg ccgccgcctt ccggtggact caccgggact 300
 ctgaactctg accaggcgag ggacttcgac ctccccttga aggagcggtt ctacctgcag 360
 ccgctgccgc c 371

<210> 15304
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-F2
 <400> 15304

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 gtgcgctgtc ttcctgtgtt tgtgatgacc acagccacca aattcaccac accatagcta 180
 gaacattcta gggagttgct ggcccgtatg aagcttgttc cgtaatcatc tcagaacgcg 240
 aagaagaagt ggaagtcact gaagagaaga caccaccacc ctcggattct cgggcaggaa 300
 actgcttcta ctttgatatt tgtggatccg agcctgactc acctactaac aaaggtgagg 360
 aagcgacaaa tttttgttgc ttttgctccc aagtggatatc aaatgaagaa aaataagatg 420
 aagatg 426

<210> 15305
 <211> 332
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-F4

<400> 15305

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aagtacaatt acaaagaagc atatggctag tacttggaag gaggacagcc tcacctgaac 120
gtttttgtat tggctagtac ttgggaagaa gcatatggat gaatgtagtc atgaactagg 180
agctacaaaa tcccatgttt tagatattag aagtcattga ggggacctaa ttatcactgt 240
gcaattcttt attactatac taccacttcc atttgtaacg caaaattggt atgataggat 300
ggcaaataata cctgcatcga atacttecta aa 332

<210> 15306

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-G1

<400> 15306

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ctggtggcct gtggtttgac ccgctcggct ggggctccgg ctgcgccgag aagatcaagg 120
agctgcgcac caaggagatc aagaacggac gcctcgccat gctcgccgtc atgggcgctt 180
ggttccaggc cgagtacacc ggcaccggcc ccatcgacaa cctcttcgcc cacctcgccg 240
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tggcagttcg aggagtgtta ccacacatgc atgcattggt aggtttgatg gccgatatgg 360
aactttttct ctttgttggg ggcggactac tgggtagact gtcaacgatg atgatgatga 420
tgatgaaaat gtcgtg 436

<210> 15307

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-G11

<400> 15307

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cccggacgct ttctggctag agattaacga gaggccggca aagaaggcgg cgattgattt 180
ctcccgcctt tccatctccg aaccctcctc gtccctctgcc agtgtcaaag cttcagagga 240
accacggggtt aagaaaattc ttgtccagca catcgagaca gtacaccact ctgaagctgt 300
cgaagatgtt ttacaatctc ttttgcttgt tgactcaaat toccaaggaga caaagagcaa 360
gacaaaggag tggaatgaca gaatcaagca agacaaagga ccagagcaac tacgatcagc 420
tgccagacag aggcattgagg atatggg 447

<210> 15308

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-G4

<400> 15308

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caataatata ttggaggcat ttgacgcca ggatcaagca tcaactcttc agtttcccag 120
ctatgctttg gagggttcag tttttcaaag gtttgacact gacctcatca agaaagtcag 180
caccaactgt cttgtcatgc aaaatcacag atatggtata tcaccaaggc gatatcgaga 240
gaacgatgca ctatcaagtt tcttcaaaat cttgactaca tcacctgatg aaaacggcaa 300
gggtctatgtc tcaactgtac aagccaataa ttatccaatc acttgacgc aatggcatcc 360
tgagaaagcc atttttgagt ggaagaaacc aatgattcca cacagttaag atgcagtaca 420
agttactcaa cattttgcca atcatttta 449

<210> 15309

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-G5

<400> 15309

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gatccgcagc agatggaggc gaagagcagg ctgccggagg tgaccatcgt cccggcggca 120
cggccgttgg ctggcgacgg cacagtcgac gcggcaaagg cggcggcagg caaggagccc 180

gtaagcccgg gcactccgtc ctcgggtggcc gccggccgca gcagctgtga ggagaggcgc 240
 gcggtggacg gcgtcgccct gcctgggtgg aagctcgacg ccctctgcca ggagtcctgc 300
 ccgtcgccgg ccatgagggc gcgcttcccc tactacttct gaagcttccc gttgcagtcc 360
 tgcgtgatcg agttcttgag cggcgacatc tgggtgatgc tcttgaccac tgatggcg 418

<210> 15310

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-G6

<400> 15310

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 gttacatgtg tatgttcaca gcagatgaac tttactagc agatgaactt tacagcgta 120
 catgtgtatg ttcacggcag caccctgtgt gtgtgtatgt gtatgcgtat gcgcctgcgc 180
 aacctactac ttcgcgccct cctcctcccc ctcctcttcc ttccagaccg gaaggatgcc 240
 ttgcccagcc agcctcttgt agaccagaa caccacgtac ttggccgtta tcctcttctc 300
 atcgatcagg aacggctcga tgggtgtcac ttcgttgctg taggacgata gcgcaaagcc 360
 cttcggtcct gtgaggtctc cttttggaaa gaaagccac aaataataag ggacgtcgtt 420
 ctttatgaac gatccctcca gcgtgttggt ttgg 454

<210> 15311

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-G7

<400> 15311

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 cactacagca aagcatgagc atccgtcgcc gacgccgtgg ccggagcggt tccacgcggt 180
 gctgttcacg aacctgacca actacacgga agcctccacg ggcccgcgcg tgcgcgtgac 240
 ggacctctac tacgactggc cgcggcgggc gaacctgaac ctggtgcggc accagctgtc 300

ggccgaccgc ctgtacgacg tggagtggaa caacggcacc ggcttctact tcgactccaa 360
 ggcggtccgc gtggagcagt tccccgtggg cgtgctgccg ccgtggtggg tctccggcgg 420
 cggcgccgag tacgtgggcc gccgcg 446

<210> 15312

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-G9

<400> 15312

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 gagcaccatc ttcgacacgt tcggaggggc ctcttaagcc cgccattgct ccgccccgtc 180
 catcgaccgg ccggaacgtg ttcttggatt aattaactac gatctctatg agcctgggga 240
 tggatcaacc cgtcgtgcgt ggtctcgttt tgtgatgagt gggagagaga ggatggcacg 300
 atggatcctt tgtaaatgga gatctcgttc attaggagag ctaccgctgg gacttgggtg 360
 ttg 364

<210> 15313

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-H1

<400> 15313

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 ctcttatgtg gccaggagca tactgcgagc agaccagcgc tgggtgctgc aagccgacca 120
 ccggcgtctc gccggcgcg cacttctaca taacgggctt caccgtcctt aacgcgacca 180
 ccgacgctgc agtgacggga tgcagcaaca aagttcctta cgaccctaac ctgattaccg 240
 gcatccaagg cctgaatcag tactggagca acatcaggtg cccagcaac aacgggcaga 300
 gcagctggaa gaacgcctgg aagaaggccg gcgcctgctc cggcctcagc gagaaagact 360
 acttcgagac tgccctctcc ttccgtagcc ggattaaccc actcgttcgc ctcaaagcca 420

aaggatcga gccggacttc gggctctacg gcctcaag

458

<210> 15314

<211> 385

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-017-Q1-E1-H3

<400> 15314

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ccatcattgg actgaagatt agagacctct atgaacagat tgttgctgag agggctggtg 120
taccagcgga agcagcaaaa gtttaacgat ctatgcattc agatgtccta aaactacagc 180
tctccgaact caatgggagt aacaaccttc gcatctgttg ggatatatgg cgagctagga 240
ggtatagaaa tgtcattgca gaactcagga aaacgtgcaa tggaatttct tgaaatcnct 300
cttgaagaga gtgagaactc gatagatcaa gaatcaccac acgttgtatt aatcgtatgg 360
tataatattt atacatgtac aggaa 385

<210> 15315

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-H5

<400> 15315

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cctctcctcg ccgccggcag ccgcactgcc atcacagcgc agcagccatc gtcgaggaaa 120
ggcgccgctg gcgcagggtt gttctgcagt cgcgtcatcg tcagcaagcg cgccagggta 180
acagcgaagc tcggagacgg agagctgaag cctgcaggca agcggaagtt catcaccaag 240
gaagaggagc cagaacagta ctggcagacc gcgggggaga gggagggcga taaccccatg 300
atgacacccc tgccctacat catcatcttc ggcattgtcca ccccttcgt catcctcgcc 360
atcgccctcg ccaatggctg gatcaaggtc cctgtgcgat 400

<210> 15316

<211> 451

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-018-Q1-E1-A2

<400> 15316

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tcacatgggg aaacctgcga agatcggata gtcgggtgga gaccccggcg atcggcagga  120
tctgagggtc actccggaca ggatgatcga cgtgaacgtc actgccggaca accagcaggc  180
tgcaaccgct ccattctctt catcaacatc ggagccgacg ccaaagccta cgaagaaggg  240
ccaaagggtt tcagccaagc tgcaacacgg tacaacatag atctgtgcaa gttccactat  300
agcttgacgg agatctccgg gaccacgggc caaaccaca atattgacga tctagtcaag  360
tctcagaaat gcgtcaccac aaaagcggct acggaacgta tagcaaggac caaggcagcc  420
cgttccgtgt caaagaaatg aacaacgggc a                                     451
  
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<210> 15317
 <211> 390
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-018-Q1-E1-A5

<400> 15317

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gccacggcaa gttcaagcat ggtcacggcc accacggcaa gttcaagcac gggcacggca  120
agttcaggca tggcagacac gggcacggca tgttcggcgg eggcaagttc acgaagtgga  180
agtgatgtgc cctccatggt tgatcgtagc tgaactcagg cttccaggac atgtgttgcc  240
agtaatacct tttcagcgtt actcatcctt catctgtatt tccagtaatc cagcttgtgg  300
cgagtgcacat aatgctaata agtgacataa ataaccattt gctgatatgc tgtatatggt  360
ggctcttggtg atggagcgtc ctgaagatta                                     390
  
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<210> 15318
 <211> 60
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-018-Q1-E1-A9

<400> 15318

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<210> 15319

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-B10

<400> 15319

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ggactggact tccgccgagg ccgattcacc gtctgcaatg tcgccgctcc caccgcccgc 180

gaacaggagg cgacggcgac ggcgtcggcc gcgaaggaga cccagcggcc cgtgtaccca 240

ttcgcggcca tcgtggggca cgacgagatg aagctctgcc tgctgctcaa cgtcacgcac 300

cccaagatcg gcggcgatc gatcatgggc gacaggggca ctgggaagtc caccaccgtc 360

cgctcgctcg tcgacctgct cccggacatc cgcgtcctcg tcggcgaccc cttcaactcc 420

gacccggacg accccgaagt catgggcccc gaggtccg 458

<210> 15320

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-B4

<400> 15320

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gctgtcttat ctgccgccgc tgcgcacgga agacttggtg aagcatgtgg actagctgct 120

gcgcaactgc tggataccct gcctcgagtt cagcatggtc agcttcgtgt tacgcgtgaa 180

ctccacctcc ccgtgctact acgacggccg ctactggacc atgtggaagc tgcccatggt 240

ctggtgcaac gacgccacgc aggtgtatag ggtgctgcat gaagccatca aa 292

<210> 15321

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-C1

<400> 15321

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agatgcacgc ggttcctaat taatgccgga taaaaaggat ttccgggtata gttttccttg 180
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tacattatgg cagggcaacg tttcacaatt taatgaatcc tccacttatt tgatgggatg 360
gttaagagaa tacctatggt taaactcttc aaaacttatt aatggatata atcctt 416

<210> 15322

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-C3

<400> 15322

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cccttcaaac ctccaaagg ttttttcaag acaaaggctt tccatcctaa tatcaacagc 180
aatggaagta tatgccttga cattctcaaa gagcagtggg gccctgcttt gacaatttct 240
aaggctctgc tctccatctg ctccctgctg accgacccca acccggacga ccctcttgct 300
ccggagattg cccacatgta caagacggac cggccgaagt acgagtccac ggcccgacgc 360
tggacgcaga agtacgcgat gggctgacga acgctttcct gctcgtctgg gcgctattgt 420
tcccttgat ttgttggttg tcgtatgtat ccctg 455

<210> 15323

<211> 265

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-D2

<400> 15323

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tcgcggatgg cacaacggac gtcttcggcg agggccgcat caccatggcg aacaccgccc 180
caaatcccaa gccgggtgcg ttcagcagcc cctgtttcgg tgccgaccgc gtctgttagc 240
tgggcacgct gtccgggtcg cccca 265

<210> 15324

<211> 207

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-D5

<400> 15324

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cgccactgcy aagtctgaga taatgcatgt atgcttgacg gcgagatctg aggaaaaata 180
atttctatat atgcatgttt cgagaaa 207

<210> 15325

<211> 280

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-D6

<400> 15325

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cttttggaat agcgagttca tgtcgcatgc aaagaaatta ttacgttgga gaaacaggct 180
cttagtacac ctctagataa aattaacatg aggttgacgt gatcgtactt gtcaacatca 240
aacggtggct gaagttattg cagagcaaac ttcttgagga 280

<210> 15326

<211> 230

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-018-Q1-E1-D7
 <400> 15326
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 ttcactaatg ttttgttatg tacttggtgt gttcaaaagt tcttgtactg taggctactg 180
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<210> 15327
 <211> 189
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-018-Q1-E1-D8
 <400> 15327
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 tgtctctct 189

<210> 15328
 <211> 435
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-018-Q1-E1-E7
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 ccgagacgca cagtcacagg taaaagtaaa cgcacacgac tcatgtccga ggccagcagc 180
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 gcacccccgt ctcgatgttg agctgcgcca gcgcgcctt ccccgatgatg atctcgccga 360

tgatggagaa ggccacgccc agctgcgcca tccgccccag gaacagctcg ttcgacttgg 420
 tgagaccgaa cagcg 435

<210> 15329
 <211> 82
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-018-Q1-E1-E8
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 caataaaata tgctgtaaat aa 82

<210> 15330
 <211> 121
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-018-Q1-E1-E9
 <400> 15330

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 tatgtaggga tgtagttcag ctgaaccata aactatgccg tgtgttgat ttaaagctgg 120
 t 121

<210> 15331
 <211> 297
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-018-Q1-E1-F1
 <400> 15331

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 gggaacaata ttcgggctcc gcaagctctg aagagctttt cgccaacagc tccgctttgt 180
 tcagatggct gagaattcgc caggatgtat cacctgtttc tgacagtatt ggaacagttt 240
 tccatctgcc gttgtagttg aggaatgatt ctgtaggatg tgttgcaggt gaaaacg 297

<210> 15332
 <211> 409
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-018-Q1-E1-F2

 <400> 15332

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ttcaatgcaa taatgacctt tccccagaac tatcccaaca gcccgccatc agtaagattt 360
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<210> 15333
 <211> 366
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-018-Q1-E1-F3

 <400> 15333

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gatcgaggtg aacgtcacgg cggacaacag cagctgcac cgtccatct ccttcatcta 180
catcggagcc gatggcaaac cgtacgatga ggggccatgg ggtttcggcc atgctggcac 240
ggagtacaag attgatctgt gcacgttcca cgagagcttg accgagatct ccgggaccac 300
gggcccagcc tacaacattg acagtctggg caagtctctc aaattcctca ccaacaaacg 360
cgccata 366
  
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<210> 15334
 <211> 379
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB36-018-Q1-E1-G3

<400> 15334

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ggtcgttccg.ctgagcacca acatcgtaa aatgcgaaat ggttcttcga gttttgtcgc 180
tttagatact caaatcactc gacgaaggcc acacattctt tctgttcata aaagggtcttg 240
tacatgagat tgcatacact gttgttataa ctttaccccc aatagacttg taaatgcttg 300
tgcagtaact cttatattac ttttgcttca acattgtaag atanaagact tgccaaaata 360
aaatctgaac cttgggggc 379

<210> 15335
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-G4

<400> 15335

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taaataaaac aacaaaaaca ccctatgtca ttcaatacac tagtgacaca aacacacaaa 180
aaacatacat acaaagtttt ctacacaaat agtagcatgt gataataata agcgagatag 240
tgagaaacaa tacacttcac aggtgaattg ctttctcgat ggataggaca ataatagcat 300
gcttggtttt ctcattctca aggtgtttgg caacacggcg agcgtagtct ttgaataact 360
tatcgagaat gggttctcca aattggcttg cgactagcgg ctgcataact gctcgtaggc 420
acttagcaac attttaccg ctcctaatac tgttatgcac 460

<210> 15336
<211> 286
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-018-Q1-E1-H5

<400> 15336

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cgctcggtcg cgtcttcccc gagctgctcg cccgcaacgg tgtcaagtcc ggcgagggcg 120
tgtgggttcag ggccggctcc cagatcttca gcgagggcg gctggactac ctcggaacc 180
cgagcctcat cgacacgcag agcatccttg ctatctgggc ctgacaggtc gtgctcatgg 240
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<210> 15337

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-A11

<400> 15337

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cgccaagcac ctcagcgacc ccttcggcaa caacctgctc accgtcatct ccggcgccgc 180
cgagaggacg ccagacctgt gaggacgcgc cacaagccgg cagcgatgcc aagtcatgcg 240
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cgtgccatgc ccatgcgtgt acattatcga gagggggaag aaaccttctc attctgatct 360
ctgatatgac tgctgcttca gattgcgcct gagatatgct aagtttttga aagccaatta 420
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<210> 15338

<211> 119

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-A3

<400> 15338

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<210> 15339

<211> 445
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-019-Q1-E1-C5
 <400> 15339

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 ttcttctcca gcattcggca ggagc 445

<210> 15340
 <211> 384
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-019-Q1-E1-C7
 <400> 15340

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 gatcatgggt aagcacgtac tccgatccat tcccatccca tgaagccatg ataattgatga 180
 tatgatccat ggaccatgca tgggtgctctg gtcgatgccg tacgtgtgtc gctgatacag 240
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 ctgagatcat gcatgtatgc ttgacggcga gatctgagga gaaataagtt ctagatatgc 360
 atgtctcgag atggccctcc ctta 384

<210> 15341
 <211> 366
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-D11

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acactaacat agtgttatcc cagggtataa gtttgttctg ttgtggatgg tgctaagtgc 180
cggtgggctc ggccttctta tataactata tcccatcttt agcttcttta ttgaggactg 240
tcacttaagc tagcatgtat tttaaaactt ataaatgttt tatacattca aattgtaatc 300
tttttggatc aatttcgttt gtaataaact ccgatgatat atattgtaat cttgttataa 360
cttgta 366

<210> 15342

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-D12

<400> 15342

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tcgccgacga tcccgaggcc ttcgcggagc tcaaggtgaa ggagctcaag aacggccgcc 180
tcgccatgtt ctccatgttc gggttcttcg tccaggccat cgtcaccggc aagggcccgc 240
tcgagaacct cgccgaccac ctcgccgacc ccgtcaacaa caacgcatgg gcctacgcca 300
ccaagtctgt gcccggaag tgagggggtc ggacgcgcca ccgccaccg ccaccggcca 360
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<210> 15343

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-E7

<400> 15343

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acgtaccaa cttcgtcccc ggcaagtga cgagggcata tacatacttg tatgcgtgta 240
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gagcatgggc tcagagattg taccagtagt gtacgtatct gcatgcatgc tttggctcct 360
gtggacatta tcaatgaaat atgctgtaaa ttatacatat gtctttaata atgcatactg 420
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<210> 15344

<211> 56

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-E8

<400> 15344

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<212> DNA

<213> Zea mays

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gacaacttgc agaagggtc catcttccca cccttcacca gcatcagaaa gatctctgcg 360
cacatcgctg cagccgtggc tgcaaaagcc ta 392

<210> 15346

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-F6

<400> 15346

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aggtttcaca ccactgggtt atgagagcag agaaattttg gtacaagtag ttctgtattt 240
gttatttatt gcattcgcca cgcacgtcc aaatgagacg gatgctatat ttcagttctg 300
atgatggcca ctgggtaact agagtcacct gtcttgatg gatccccact tttcagacgc 360
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<210> 15347

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-G12

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gtacatttcc ctgccgatgg tgtccagccc actgttgctg ctggagaaca cgtcgttttt 240
agacttgatg tgttttacta ctgttttgac actcgttgta tttctgtata tcgcgtcaga 300
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<210> 15348

<211> 146

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-G5

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agaaaaaaga aaaaggcgag aataaagggg cgggcccccc agagggttga agcttaggtg 120
ggcgtggatg caagttcaga ggtggt 146

<210> 15349

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-G6

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cccgtgcgg tatcgtcgtc ttctccagac atcagcgacg agctcgccaa gtggtatggt 240
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<210> 15350

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-G8

<400> 15350

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ctaagccaga gcctaaaccc gaaccgaaac cggagccaaa gccagagccc caacctaagc 180
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caaagcctga gcctaaaccc gaaccaaggc cagaacctaa gccagagcca aagcctgagc 360
ctaaaccgaa accagatcca aagccagagc cacaagcaga gccagagcct aagccagaac 420

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436

<210> 15351

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-H10

<400> 15351

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gtga 364

<210> 15352

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-A12

<400> 15352

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ggcggacgcg tgggcgagcg cgtgggcgga cgcgtgggcg gacgcgtggg caciaacgcg 120
cctccgtacc atccgtcgcc gccggcgcac cgcgatggct gcctccgcca cggccgcgag 180
gcctctcgcc gggaccgccc tcccgtcgc gctctcgaca cggacgcggc ctgccagggg 240
cgccttgctc tccctgattc ctctgctcc ggcccagcgc cttgctctca ggcgtggcgc 300
gtggctctca cccccggagc gcagccggtc ggtgcggtgc ctggcggcta tgaaccggga 360
gatgcgggca acgctggaca aggtcgtagg ctctagcaag ggggtgctgt tcatgaatgg 420
gcacaaggac ttcccgcaat gcgg 444

<210> 15353

<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-A5

<400> 15353

aattggtatt aactcaaagt ctcaaactg cctcttggtg cattgacaca catgtacaat 60
acaatcgtac atatagtagc ttttattcga caagcagcct ctgcatgcaa taatagtaca 120
acccccgatt taattaattg gactaatgca tgctgaggat ggatcagatg gagatgctgc 180
tggggatgcc cctcccgggtg actcccggct tggagaaggg cttgagcagc tcgtacggga 240
cgatcccggc gccgcagcgg ttcttgaggt ccagggtgtt gttgcaactc tcgatgaacc 300
cctcgatctc cttcatcctg ccgccgaact tctcgaacgc cgccttcacc atggggtcgg 360
ccagccacga c 371

<210> 15354
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-A7

<400> 15354

gggtcgaccc acgtgtccgc acacacgtct gctcacgcgt ccggagccac caagcgacgt 60
gagaggaacg tttagggaaa gagagaaata actaacctta atttttgcct atgtatacca 120
tcttacgaat tgcactctat gaggactcta ggcccaaata tatacatcga tgcaggatag 180
aggatagaga gacagaccgt gtacaacaaa gactatatga gaccaaatac aacaaggata 240
catgcataga catctaataa ttaacagtgt atacttgcaa aaaaagggtgt caacacttta 300
tattatcctt gtcttaatca tattgattat gacaaaagggt tgattgtaac actatcttga 360
gttggtttttc gcagtggcat atgaatttgg ggtgcctgtg ttatttgagc cagtctcagt 420
ggtgaagtgt cgaataattg caccagt 447

<210> 15355
<211> 362
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB36-020-Q1-E1-A9

<400> 15355

gggtcgacct acgcgtccag atgatgtcat aaagctcaag gtccctggcta acgccgatac 60
ccctgatgat gcattgactg cgcgaaacaa tggggcacia ggaattggat tatgccggac 120
agagcacatg ttctttgctt cagacgagag gattaaggct gtcaggcaga tgattatggc 180
tcccacgctt gagctgaggc agcaggcgct cgaccgtctc ttgccgtatc agaggtctga 240
cttcgaaggc attttccgtg ctatggatgg actcccggcg accatccgac tccctggaccc 300
tcnccctcac gagttccttc cagaagggaa catcgaggac attgtaagtg aattatgtgc 360
tg 362

<210> 15356
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-B1

<400> 15356

cgggctcgacg cacgcgtccg cacacgacgt ccgcttggac agcaagttcc cttctctctg 60
tccaaggata aactgagtag ccgctgcgct gaagaagggc tccagagctt tgatagtgtg 120
agcaaagttag actgcaacag cagcgaagga cacattgcta gtgatgtgac caataccatg 180
gcacagggcg actggaaaga gaagcttgag gagcgtgcc a ttgataggcg ctgccttggg 240
gagaccgaca ctccagctga tgaggcagta tacgacaccc actactagat ggatcaagga 300
cacaaagtat gggtatggga agtagttgta gatcttcttg ttgaggatgt tgaatatgac 360
gttgaggaag taccacatga agaagaagaa gccggtgacc agggccgggt acttctccag 420
gaaaccacaca gacttggcct cccctgc 447

<210> 15357
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-B12

<400> 15357

ggtcgacgca cgcgtccgca caagatgagt gggagggttc ctatctctat ctgcggttg 60
 tcctgcggaa gcgaggccaa ccgcctaccc aacgaagagc cagcaacgca aacagaggga 120
 aaatgtttct caccgagggt gacatcgagg ttctcgggtg ataagcatga gtatattctg 180
 gaagggttg ctaacagctt accgattata tgctccacag accacatagc ataaaagaaa 240
 gttgtaacat tagtggtc cctgctactc catccgttta taaataaatg acaacgttga 300
 ctttttttta aaaaaaatg accactagtc ttatttaaaa aagttatcat ttactttttg 360
 taatttggtt tatcacttaa gttagtttgt gcttgactta aaattttaca ttttgaataa 420
 atattttaaa atgaatattt tg 442

<210> 15358

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-B5

<400> 15358

ctgcggggtc gacgcacgcg tctaaatggc atcatctcat cagccactgg ctcaacaccc 60
 acgccgtgat ggagccgttc gtgatcgcca ccaaccggca gctcagcgtg acgcaccccg 120
 tgcacaagct cctcctgccg cactaccgtg acaccatgaa catcaactcc aacgcgcgcc 180
 agatgctcgt caacgcgggc ggcattctcg agaccagcgt cttcccgccg cagtacgcgt 240
 tcgatatgtc cgcgcgtcgc tacaaggact ggaacttcac agagcaggct ctccctgacg 300
 acctaatcaa gagaggcatg gcggttgccg acccgtcgag cccgtacaat gtacggctgc 360
 tgggtggagga ctaccggtac gcgtcggacg ggctggccat ctggcacgcc atcgagcagt 420
 gggtgacgga 430

<210> 15359

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-B7

<400> 15359

actcgcgggt cgacgcacgc gtccgagaac gctgccaccg ccacgcgtaa gccgtcgtg 60

tccaagaagc cctcgccgctc gttccgcctc cggaacggca gcctcaacgc actgcgcctg 120
cgccgcgtgt tgcacctctt cgaccgcaac ggcgacggcg agatcacctt cgacgagatg 180
gcctcggcgc tgcacgcgct cggcctcggc gccgaccgct ccggcctgga ggccgcgggt 240
ggcgggtaca tcccggccgg cgccgcgggg ctccgcttcg acgacttoga atccctccac 300
cgcgcgctcg gggacgcgct gttcggcccc atgccggtgg ctgtgaccga ggaacgacgac 360
gacgaggggg acatgaagga ggcgttccgg gtgttcgatg aggacggcga cggcttccac 420
tcggccgccc agctgcaggc cgtgctcaag aag 453

<210> 15360

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-C12

<400> 15360

acgcgtccga tcgggggctt ggcccgggaa ctgctccctc ctcagctacg acgacctccg 60
cgctacctc gagtcgcagg agacggcggc ccaggcagac gatcagcgcg gcgtggcgct 120
cctgagcgag accatgtcga caccgtgctt ggtggccaca gcagaccaga ccctggagga 180
cgtcgagtgc cacttcgagg ccgtgtcggg gcttccggtc gtcgacagcg gcctcagatg 240
cgtcgggggtg atcgtcaaga acgaccgggc aagagcctct catgggtcca cgacgaatat 300
atcggaagtg atgacatctc cagctatcac actatcgtct gacaaaaccg tgatggacgc 360
tgctgttctc atgctcaaga agaacattca cagattacca gttgtaaacc aggacg 416

<210> 15361

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-C2

<400> 15361

gcgggtcgac gcacgcgtcc gcactcagtc ctcgctgaaa atcttctgtc gtaataaagg 60
ggtcacccgt ccaccgtcca cgtgggcggc ggttgccggt acggcgggcg cggcgggcggc 120
gtcagcgggc gccggagatg tgagagcctc cgtgccgttg gagatggctg cggcgggggc 180

agggaccggg agcgagggga agaagcgggg cgcgctcgcg agctggatcc tgctcgacgc 240
ggccgggggag gagcagctgc tggacgccga taagtacgcc atcatgcgcc gcgtcgacat 300
caacgcgcgc gacctccgca tctctgaccc gctgctatcc taccctcca caatcctcgg 360
gcgcgagcgt gccatcgtcc tcaatctcga gcatataaag gcgatcatca cttccaacga 420
ggttct 426

<210> 15362

<211> 429

<212> * DNA

<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-C5

<400> 15362

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ctctcgagg gcgttctgcc cagcaggcgc gccgccaaca gggccaggac ggccgcgcgc 120
gtcagggcgt ccgccgaggc gcaggcgcag gcgggcccgc gcgccgtgct cgggctggtg 180
ggcactggca tcgtcggcgg cgcttctgcg caggcgggtgc acgccgagac cgtcaagacc 240
atcaagatcg gagccccgcc gccgccctcc ggtggactcc ccgggactct gaactctgac 300
caggcgaggg acttcgacct cccttgaag gagcggttct acctgcagcc gctgccgcgc 360
gcggaggcgg tggcgagggt gaagacgtcg gcgcaggaca tcatcaacct caagccgctc 420
atcgacaag 429

<210> 15363

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-C9

<400> 15363

gggtcgacgc acgcgtccgg catccagttc tctgtcaagg agttgccgga caacaccgtg 60
gagttctcca cctctacta cgggtgtccc gggcacctac ccaagcctga cgacgaagcc 120
tccgagtcca ttctcttcgg ggtgaagatg gtatgccgga tccacgggtc aggcgacgtg 180
gttctcgact acgaggtaaa cccaggagc gacctcctc cccttccccg ggtgggcgtc 240

gtgttcagcg ccgggaggtc cctgagccac gtcacgtggt acgggcgcg gcccttcgag 300
 tgctacccgg accgcaaggc ggcggcgcac gtcggcggtg acgagagcag cgtggaggag 360
 ctgcacgtgc cgtacattgc ccccgaggag tgcggcgggc gggcggaagt caggtgggtg 420
 gcactccgcg ac 432

<210> 15364
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-D10

<400> 15364

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 gatgaaggcg gaggccgacg acgggctccg gctggacgtc ctcgaccaca actacctccc 120
 cagggtgatg ccccaattcc tcgcctggaa gcagcagtac agtaggtttt cgttccaacg 180
 tcgcgcaggg gagccattcc tgtactggat gggtcgcggc ccccggtctt gcctcttcga 240
 ctacgagtcg gtaaggcaag ttcttttcaa caagtccggc catttcttca aggacgacgc 300
 ccacccgact atcctggcaa tgatgggcaa agggctggtc ctggtggaag gcaccgactg 360
 ggtgcgccat cggagggtgg tcaaccacgc cttcgccatg gacaagctca agatgatgac 420
 ggagacgatg gtcagctgtg ctg 443

<210> 15365
 <211> 81
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-D11

<400> 15365

gtccgaacgc taggacatgg aggtttgtaa tatatgatcc aaccagtgat gaatcaatgc 60
 attcacttgt gtacacaaaa a 81

<210> 15366
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-D2

<400> 15366

cggttcgacg cacgcgtccg ggtcaatgag agctcaacca gaagacagca gctgccaagg 60
aatagtagcg taagtatgca aaagaacaaa aattccacta gcccaaaatt actacagaga 120
aaacttgatc cagagcggag ggctagacca cctattcctt ctgctgagtc taacaaaagc 180
gaaaggcaat ctggagatag gaacaattca gaaacagtgt caccocgaag caaattcaga 240
aggaaacttg tgcgcccaca aggtgatgat ggcattgcca ttggattgaa caacaggaca 300
aggagcctgt atcagcatga caatgatatg tccataaggt cagatggcag tataagtgtt 360
gcttcagagc tggatattat aagcaatgac agatctacag gagttaatat ttctaacttt 420
gagcaaggca ttggaactcc atctg 445

<210> 15367

<211> 202

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-D3

<400> 15367

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gtcttggttg ttttttcccc tactgcacac ggtgacgctg ttgtgagcat tagatgtttg 120
gccactcggc cgttttgccc tgggtgagttt tggcttaatt cattattagg taacaggcct 180
gtaagctgta tagtaagaat aa 202

<210> 15368

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-D8

<400> 15368

ctcgcgggtc gacgcacgcg tctggatcgc gtctctcac tctctccgta tctcgcttcg 60
ccaccgccgg cgagagctag ggtttcgtgc gccaccgtca cttccgcccg ccatggccga 120
gacctccacg tatcagattc tgggtcgtct cctcgacggg cgtaccagat gtctccgctt 180

ctccacgccc accgtttccg ggcgcgtgct cctcgacgcc gtcgcgtcga tctctcgct 240
 tcccgcgcgc gctctctgcc tcgtcaccgg cggcatcgac gtatcgccct cttccgtcct 300
 cgctcagca gctgatggcc agttccccta tgcgtcagcg ctctccgcc ttcgaggagg 360
 caagggtgga ttcggctccc tcttcagagg ggctgcctcc aaagcgggtc agaagaagac 420
 agcaactttg acgcctgccc cgaca 445

<210> 15369

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-D9

<400> 15369

actcacgggt cgacgcacgc gtctgaaaag acgtccgctc acgcgtccgc ccaacgcgtcc 60
 gggcgcggggt cgcattggcg gcaccacca gtacacggtg aacaaccaga tggtaaacgc 120
 caccctgatg aacatcgccg acaaccccac caacgtgcag ctcccgggga tgtacaacaa 180
 ggaggacaac ccccgcggtgc ccatcatcgt caccggcaac gacttctcca cgctctacgc 240
 gccgctcatc cgcgacggcc gcatggagaa gttctactgg ggcgccaccc gcgaggaccg 300
 catcggcgtc tgcaagggca tcttcgcac cgacggcgtc gacgaggagc acgtcgcca 360
 gctggtcgac accttccctg gccagtccat cgacttctc ggcgcgctgc gtgcccgggt 420
 ctac 424

<210> 15370

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-E10

<400> 15370

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 aggagcaagt agagatggct tgccctgcgc agtccatgct ctccgccagc ggctgcatct 120
 tctgaggag caagcctcag gcggcatccc aagtgcgagg gggcatcatc ggcggtggcc 180
 gcagcagcag gccgttctg ctcacctgca acgttctc tctccgtcc ctttctcgc 240

cggcgccggc gcaggaagac cccgactgca acgaggagga gtgcgccccg gagaaggagg 300
 tcgggagcct gagcgccgag tggctggccg aggagaggac ccaggtcgtc ggcactttcc 360
 ctccaagaa gaaaggggtg accggcttag tggagaagga caccgccggc cagaccaaca 420
 tctactccgt cgagccgatg gtgta 445

<210> 15371

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-E11

<400> 15371

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 atcctcgta ccagctcgct cgcgtgccca gttcctggtt ttcctcttc ctcccgcgt 120
 cggacatcgc cagtgaaggc ccgcgcgcgc cgtcgtttga atcctggttt tctccctact 180
 cgctgcgctc acgtcgctcg cttcctgctc gttccgcgac gtcgctcca gtccacagct 240
 cgttggttcc cctgtgcgcg gttgcggatg ccgtcgcccc atccttgtag cttggccccg 300
 tccttggtgcc ttgctgagct catcaacgcc gcgagactct gcatcgctgt gtcagccac 360
 gcctccctag tcgtcttgca catactcatc tgcaaacagg agcacctgc cgactattga 420
 tcccgctggtt gctcgcagc gc 442

<210> 15372

<211> 466

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-E5

<400> 15372

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 acaaagaagg agatttgacg ctggaagact tggatgatgc tactgcagaa gctgtagatc 120
 aagacaaaac gaccagcaaa aagaagaaga gctcccacaa gaaacatacg aatagtcatg 180
 ataatgacaa tatagacaag aatggagagg ccgatgtggg agatcatccg gggagtagta 240
 acacagaaaa cgaacagatg cccgaatcaa gacctaaaag atcaaaaagg ctgatgaaga 300

gcattactga tgacaaggaa ctagctgctg ctgcggatca tgagaaaccg gtaaataag 360
 cggaataatca ctgagcccat gattatgata gagaagaggt tcaaggatgat gagaacactc 420
 cagcctaatac cactgacaga agatgagaac accaagatgc taaatg 466

<210> 15373

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-E9

<400> 15373

gtcctgaatt cacgggtcga cgcacgcgtc cgagcataac gaggaggttt ttaggggtggt 60
 ggtggtgttg tgaggagctg ctgccgctgc tctccagtct ccaccgatgg cgatcaagaa 120
 catgacggtg gcggcgacga cgcggctcgt ggacgcggac atgacgggtg acgagttcaa 180
 ggagtggctg cggcggttcg acacggacca ggacggggcg atcagccgcg acgagctgcg 240
 gcgcgccctg cgtgccatcc gctcccgtt cactgggtgg acgagcacgc agggcatcag 300
 ttacgccgac gctgaccgcg accgctacgc cgacgacggc caggtcgatg gc 352

<210> 15374

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-F1

<400> 15374

gggacgacgc aacactctag agtgagtcgt attagtcgga aatccctgta acactaatgc 60
 gctgatttgt ttgaaaaatg ccccaaacat accggcaaaa aactttcatg cattgacgag 120
 gttgatgaa aatagagcaa agtgccagct ggactaaaaa gcaggtgtat tttatgacaa 180
 agtatcaaac gtgactatgt gggggaacca ttgcagcact caggttctctg atttcttgaa 240
 tgccaaaatt gatggaagac cagtgaaga agtcattaag gataccaact ggtagagga 300
 agagttcacc ctcacagttc aaaagcgtgg atgtgtgctc atccaaaaat ggggcagatc 360
 atcagctgca tcgaccgctg tttccatagt ggatgctaata agatccct 408

<210> 15375
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-F10

<400> 15375

gggtcgacgc acgcgtccga agcaagctag cagcagagta catacatact aggcagccag 60
gcagccatgg cgcccaccgt gatgatggcc tcgtcggcca ccgccgtcgc tccgttccag 120
gggctcaagt ccaccgccag cctccccatc gcccgccgt cctccagaag cctcggcaac 180
gtcagcaacg gcggaaggat ccggtgcatg caggtgtggc cggcctacgg caacaagaag 240
ttcgagacgc tgtcgtacct gccgccgttg tcgacggacg acctgctgaa gcaggtggac 300
tacctgctgc gcaacggctg gataccctgc ctcgagttca gcaaggctcg cttcgtgtac 360
cgcgagaact ccacctcccc gtgctactac gacggccgct actggaccat gtggaagctg 420
cccatgttcc gctgc 435

<210> 15376
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-F11

<400> 15376

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gccatcatcg tcacatggat ttggtccgag aagaaggagt tgggggacaa gtggagggtga 120
gcgagggtct aaagtgttta cgcggaagaa aatttcgggc ccagtcagc tagctccttt 180
gttttggtcc cccctttttt tcattttagt gctagagttc acttcacctt tgactatagg 240
cattttatct atgtaaccat tcgacaagaa gaaagcctat ctgctgtgaa ccgacacact 300
gccgaagcag ccacctgtgc agctgaaaat ttctggagat ggcacacag gatattagca 360
gagcgcagat ggcgagagaa tggtttgctt ataatgtgta agctgtgtac ccgactgcaa 420
ccgaactctt tagcagatta ta 442

<210> 15377
<211> 422

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-020-Q1-E1-F2
 <400> 15377

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 ccgggtcgtc gagaccgtca ggacgaagcc ctacgcggtc gcacgggtcc aggtcttttcg 120
 ggaccgtgac cacagccacc accaccacca tcgcgacctg atgcagcagg tggagcggca 180
 cctcgggaac gtggccgcgc tcgcggacaa gctggggccag aagccgccgc cgctgcctga 240
 ccgccagggc gaccggcggc tgcacaccgc cgcctcgttc tcgttctctg tcgcgcgcct 300
 gttcgtcgac gaccgccggg agcagcatgc gctgctgcgg atggacgacg ccgcgcagcg 360
 gctggcgcga gatggggagt acctggagcg caggaacaag tacctggcgg ccttggccgc 420
 ga 422

<210> 15378
 <211> 448
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-020-Q1-E1-F3
 <400> 15378

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 ctggactggc ttcattcaatg ccatgatatc aaacatctca ttcacctaca ggagcattta 120
 ttccaagaaa gccatgactg acatggatag caccaacgtg tatgcttaca tttcaataat 180
 tgctctcatt gtttgcatte cgcctgcagt gatctttgaa gggccccggc taatgcagca 240
 tggattcagt gatgccattg caaaagtagg cttgacaaag tttgttagtg acctattctt 300
 ggttggactg ttctaccatc tgtacaacca gattgctacg aacaccttgg agcgagtggc 360
 tcctctgaca catgctgtgg gcaatgtgtt gaagcgtgtg tttgtcattg gcttctcaat 420
 cgttgttttt ggcaacaaaa ttagcaca 448

<210> 15379
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-G10

<400> 15379

acgcgtccga acacgcatcc gctaacgcgt ccgcccacgc gtccgccgtc actcaataca 60
gcacaggcag ctcgatagag agagagagac atagatgtcg tggttcgggc accaccatcg 120
cgagcagccg gtcccccgg cgtcggggccg caagcagggtg ttcaagatgt tctgctgcgc 180
gaacgagaac tactgcctgg ccgtccgcga cggcgccgtc gtgctggccc cggtaatac 240
caaggacgac caggagcact ggtataagga catgcgcttc agcaatcggg tccaggacga 300
cgaaggcata ccggcgttcg cgctcgtctg cagtgccacg gggctcgac tcaagcattc 360
cctcagccag tcccacgcgg tcaagctcgc 390

<210> 15380

<211> 113

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-G11

<400> 15380

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ctatagacca ctgcagggtg tggatctact tgtgttcaac ttggtggatc ctc 113

<210> 15381

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-G12

<400> 15381

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taccattgag ttagcaaccc ggataaaata ggatctctta gatacgatca aaatctagaa 120
atcgatgaaa ttatacgaca ttgaattagc aagacatcaa aagaaagatt ttctaattcca 180
ttaaaaagac tcaaatacaa aaatgaacag atccggttaa atttcactaa ggctaagggt 240
aacaaaaaaa aagcagcccc aatcacaatg gcaaaattgt gatttttttg gcaatttaaa 300
gaagtaaaat aatcttgtat gtgtatgaga gtacatgcaa gaggggcaac cctatcattt 360

gaatgaagtg tagacagaaa tacctaatat ggagtgacaa taaagagagc catctatcta 420
 caaagtcgat ttg 433

<210> 15382

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-G2

<400> 15382

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 agggccagaa gccgacgccc aagaccgtct ccggcacgag aagatcgggc acgacgacgg 180
 tgttcccggg gggcgagccg ggcccgcggc cggcgacgac gagcggcaaa gcgccgggta 240
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 tgtcggcgcc ggagcgcgcg gggctgtcgc tgcggcgat ggagcggctg ggcctactgt 360
 ccaagctgga ggagctgggc gcgctgtcgg cggccacgga ccccggcacg cccggcgcg 420
 tgcttgcgct cgcgctcccg ctgctggccg ccggcccc 458

<210> 15383

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-G8

<400> 15383

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 ctggtcacat gctcgtcat gggtaagcct tgccctgggc agactaaggc cggaataaga 180
 taacacgaaa tgggcgtgga gcgggtggcg gagtagcgtg taccctccgt ggcaagaggc 240
 tggacggtgg ttagctgtg ctctcggttt gcgtgaacct gatccggtct taagaacccc 300
 ggtggcgggg tgacatatgc aagggttaag tgctacatat gtcgtgtgat tggagatcct 360
 cagctgagta caatcgattc ggatcgccgt accttcgagg ttatgaagac ttggtcactg 420

ccctacacgt agcattccac taaagatgat

450

<210> 15384

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-H3

<400> 15384

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cctcgcgccg cccctcgcag cgcattccgc tcgcaccccg ccttcgccct tatcgaggag 120
cgctcgttag cccgggacca ggacatccag gagctcctcg tcgacaacca gcgggttcgcc 180
gccacgcacg tcgcgcttca gcagcagctt atcgcggcgc agcacgagct ccggggcggtc 240
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caggcggggc acatagaggc cgaggcgccg gccgtcgcgc ctgcgcgcgc ggaggtcgac 360
caggttcacg ccgacgtcca ggtgctcgtc gcggcgcgca ctgaccttgt caaccggctc 420
cagggcctac gggagaagct cgcgcacaaag 450

<210> 15385

<211> 83

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-H5

<400> 15385

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gcccattctgt gtttttgatt gaa 83

<210> 15386

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-H8

<400> 15386

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cgagtagagc tcatcatcaa tcaactacac cgtggcgctg atcaagaaca cctcggactc 120
accacaaggg cgagcgcgac actaggctac ctcatgagc cgacgtctac atcgggtaccc 180
gacactacca ccagaggctc acagcacatc catcacagtc gactccagct aggacccgct 240
caaccacgca gagcgtgagc tcggcaatga caacggcatc gagggcaccg gagtcatcgt 300
agacatgccc cagccccggc aagcacatcc acgtcggcgc gaacaacgtg atcatcaac 359

<210> 15387

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-A1

<400> 15387

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gagggagaag cagcgggagg agctggaacg ggatcagccc tccgggggcc tcgacgggga 180
cgcaggccgc gaggcggaga cggaggccca ggccgaggcg aggcgcagcg cgtgggagga 240
gctcaggtgg aagcccctgc ttgatccttg gaatgggctg ataggtggcc gttgacctg 300
caggaggttg aagagaacct caccgctgga aactgaacct gtaacatctg cagctgcaga 360
aataatggat gtccaaggac aaaataccac ctttgtggcc g 401

<210> 15388

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-A11

<400> 15388

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acttccccgc catcgacgaa ctctacagcg acggcatccc gctgccgccc cagaccgggt 180
tcgacgcat ccgcacgctc gtcccgcgca tggtaagct ggtggaggac accaccgacc 240
acgtcctccg ctctgaggtg ccggagatga tagagagggg ccggttctcg tggttcaagg 300

acgaggagtt cgcgaggcag acgatcgcgg ggctcaaccc gctgtgcatc cagctgctga 360
 ctgagttccc catcaagagc aagctggacc cggaggtgta cgggccagcg gagtccgcca 420
 t 421

<210> 15389

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-A5

<400> 15389

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 ctccctccgt gatggcgaca tggcgccgtc ggccaccgcc gccgtcacta ctccattcca 180
 aaggttcgtg tccgccaccg gactccccgt cgcctgggtc tgggtgctgt gtcaccgcc 240
 cggcggttcc cgcgacgtcg tccgcagcgg cgaaaggatc atcaggcgca tgcaggacac 300
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<210> 15390

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-A9

<400> 15390

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 tgagttgaag gagtaattga ctctttatga taactgggta gcttcaacag gaacgccggg 180
 gcttggtggc attttggtcg tctgttttct tctagaagag aaacaagggg aggcaagaaa 240
 acatttagga aacacctttt cgttaatttg attttttatt tccattttta gatttagcta 300
 gtctgtacac tggtgttggg aatgggtccg ctgttgttgg tcgatgcttg tgggtggcaa 360
 taatattaca cccaactata ccaggctctg caatggcgaa tcatggtgca cattatggtg 420
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<210> 15391

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-B1

<400> 15391

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gtgggctcct tcggcgaggg ccgcatacacc atgcgcaaga ccgtgggcaa gccaaggtg 180
gcggcgctccg gcagcccctg gtacggcccc gaccgcgtca agtacctcgg ccccttctcc 240
ggcgagcccc cgagctacct caccggcgag ttccccggcg actacggctg ggacaccgcc 300
gggctgtccg ccgacccga gaccttcgcc aagaaccgag agctggagggt gatccactcc 360
cgctgggcca tgctcggcgc gctccgctgc gtcttcccc agctgctctc ccgcaacggc 420

<210> 15392

<211> 448

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-021-Q1-E1-B11

<400> 15392

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cgggagggaa ggctcccagg aagcagcttg ccaccaaggc tgcccgtaa tctgccccca 180
ccactggtgg agtgaagaag cctcaccgct accgccctgg aactgttgcc ctccgtgaga 240
tccgcaagta tcagaagagc actgagctgc tgatcaggaa gctgcccttc cagaggctcg 300
tcagggaat tgcacaggac ttcaaaactg atttgcgttt ccagagccat gcggtgcttg 360
ccctccagga ggctgctgag gcataccttg ttggcctgtt tgaggacaca aacctgtgcg 420
ccatccatgc taagcgtgtg nacatcat 448

<210> 15393

<211> 455
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-B3

<400> 15393

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acatcactgc cgccgcccgc ggaaagtgg catcggtgtc gacctcttcc tccccttctt   180
ccaccagga ggcaacatgt cgtcgctcgc cgctgcgaga gcggataact tctactatcc   240
gccggaatgg agccccaaga acgggtgggct gaacaagtcc catggccagc atgcgctcag   300
ggagcgagcg aggaagctcg accagggcat cctgattata aggtttgaga tgccttttaa   360
catttggtgt ggtggatgca attccatgat agcgaaggga gtaagagtta atgctgagaa   420
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<210> 15394
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-B4

<400> 15394

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attggtctaa ctgacatcac tattggcacc ggagaggtgg agctagggtc acttaaagat   180
acagtaccta cggacaaaat cgtgactcta tatggaggat gggggtttgt tgggaagcga   240
gaggctgggg aagttctact tcggctgaca tacaaggcat atgtcgagga tgaagaggaa   300
gaagacgagg cggtgagaag cgagattggg gcgggttacg cctcagacga agatgtgctg   360
gactacgtta gtggcatgag caacgggact gatttcgtgg                                     400
  
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<210> 15395
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-B6

<400> 15395

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aattcaagaa agcctttttt gagaagagga tacagaactg tgcgtcaaac atggtgaaca 120
acagagagag ggagaagatt tttgtagcca gccaggagaa attccacgcc ggcgagaca 180
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gggggaagaa agacaaggac aagaagccat ccatcacagt tgtccagggc cccaagcctg 300
gcaagcccac cgacctctcc cggatgcgcc atatcttggt gaagctgaag catgctccgc 360
cgccacatat gatgcagcct ccaccaccag cacctgctgc taaagagggc acaaaggatg 420
gcagcgccaa ggt 433

<210> 15396

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-B8

<400> 15396

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gcggcacaga ggtgcgacgt acgacgacga cgacgcaggc gccacacatg gcatcccagc 120
tctccgccgc cgtgccccgg ttccacggcc tccggggcta cgccgcgccc aggtccgcgg 180
tggcagcgct gccgtccgtg aggggtgggca ggaagaggtc gtcgtcgagc ggcatccgct 240
gcgactacat cggctccgcc accaacctgg tagatcatgg tgacgacgac gacgctgatg 300
ctgttcgcgg ggcggttcgg gctggcgccg tccgcgaacc gcaaggcgac ggcggggctg 360
aagctggagg cgcgcgactc cggcctgcag acgggtgacc ccgccgggtt caccctcgcc 420
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<210> 15397

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-C10

<400> 15397

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ccgggcgagg cgtgcgacga cctcggcggc gagttctgag aggcgcgta ccaggacggc 120
gtctccaggg agctggcgca cgctgaaga ccctgatcca tccatgtctg tccaccacgc 180
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ccgcatgcgg ctccggatcc ctattttgag gagcctagct cactattcat cagtccagca 300
ggctccgcat ccggctccgt aaaacgcacg gcctgtacct gcactcccca tttccacgct 360
ttctctctcc tctccgcagc tctctgcgtg cgcgcgcggc tgctcgcggg ccccaagtgt 420
catacactgc atgcggagtg gg 442

<210> 15398

<211> 198

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-C3

<400> 15398

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cagaagagat tgtaccgcta gtgtattttt gtatgcacgc tgtggagtgg agctgatcaa 120
tgaaatatgc tgtaaataata ttatgtcttc atttatgcat actgtacatg attgttctca 180
cgatcatgtt gtgagctt 198

<210> 15399

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-C4

<400> 15399

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ccgccgcgcg ctcacgcggc gcgaagcggg tgcagctggc cgcgcccagag ggccgccgcg 180
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ccacgatctt cgatgagtac ctcgagaaga gcaaggccaa caaggagctg aacgacaaga 300
agaggctggc caccagtggg gccaaactttg cgcgcgcta caccgtggag ttcggcagct 360
gccagttccc ctacaacttc actgggtgcc aggacctcgc caagcagaag agagtcccct 420
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<210> 15400

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-D5

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cccatgtacc agatcatcca ggcgggtgctg cgcgagcagc cggaggacca cacggagatg 420
cacctcgtgt acgcgaaccg gacggaggac gacat 455

<210> 15401

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-D7

<400> 15401

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ttccttcacg gccgcgcccc ctcgcgcagt ggtcagcagg aggtccttca ccgtgcgtgc 180
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cggcgggcgc gccatggccc atgaggtgct gctggggcga ggcgacggcg ggctcgtctt 300

cgagc ccagc cagttcaccg tcaaggccgg cgacaccatc accttcaaga acagtgccgg 360
 cttcccg 368

<210> 15402
 <211> 201
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-021-Q1-E1-E10
 <400> 15402

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 caaatttggt tcaaagatgt gtttacgctg ttattaagag tttcctttat gttatatact 180
 gttttcaaca cacaaaacaa a 201

<210> 15403
 <211> 248
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-021-Q1-E1-E11
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 ttgccatcct tcttctccc tgttgcctca gtagatttgt tggtttcttc gtctgaccaa 180
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 tggtttac 248

<210> 15404
 <211> 366
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-021-Q1-E1-E2
 <400> 15404

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 ccgtgtgatg ctctagcggc ctaagtgctt ctggtaatgg aagttgtagc acccatgcgc 300
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 aaatga 366

<210> 15405

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-E3

<400> 15405

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 cactaccgcc agcaggtggc ccgagctggc cacgctgcgc gccctggcgc gcgacgccgc 180
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 gctgctctgg ggaaccaagt gaagcggcga gaggccaccg taccgcccgg cgttgctcgt 360
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<210> 15406

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-E7

<400> 15406

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 cgcctcatct gccacgcctt aaagcctgta ggaggcgtca cctcctgttt ttgctgattt 180
 gcagcacggg gacagaaaat aatgttttgc tctcgtggat ctgcacgtga cgaggagagt 240

tcagttgtcg tgagcgatgt acgttgggaa tattgttatg tggtcctttt ctaaagaaaa 300
 aaaatgttga cagtcaagg 319

<210> 15407

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-F4

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 tccccaaagat gacagcagct gtttcctcga tagcttttcc agtgaccgca atgactggcc 240
 acgatggatt ctgagcaaag atttgattaa gctttgtgtc aaggaccata gccttcatgt 300
 aatttttttt tgttggacca ccttctatgt ggtgccg 337

<210> 15408

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-F5

<400> 15408

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 accagaaccc tagctgccgt ctccactct cgtcgggcag ctctctcagc agcacctgag 180
 gccgttgtct ctctttgcgc ggtctgcccc agccctgacc cccggagatc cggggctggt 240
 ctcggttctt tacgcggagg cggacgttgg tttctgatct ggggatcggt tcgtgcgggg 300
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<210> 15409

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-F8

<400> 15409

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ccgatagcca gcgccaacaa aaccctctc cgcgcccgt cccacacggg gacagcgcg 120
ccatggctgc tttactccga acggccgcgg cctcgtgcc cccgccctcg tcgcccctgt 180
ccgcacggga gccgcgtggg cgggtgcctgc ggctagcctg ctcccgggc gcgcccgtcc 240
gacagcttcg ggcgtggcca ctgccgactc cgcacgtctt cggtcgctct gggggccggg 300
tccggcgccct gagcgtcacc gaggccgagg aggccgcgca gacggcgacg caggaggatc 360
cagaaaccaa agttactgga gagagtgtg cagatgacag tgctggaagc acagaccaa 420
ctccatctat tattgtgaca aactgcagt cataca 456

<210> 15410

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-G2

<400> 15410

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ataagaagcc agcgcgagaa gaagccggcg gccgaagata atgcggagaa gacgaccgca 180
ggttataagc ccaagtctga gaagcgctg cgggcctcta agtcctccgg caaggatggc 240
ggcgagaaga atgggaagaa gaaagccaag aagagcgtgt agacctaaa aatctacatc 300
ttcaaggtcc tgaagcatgt gcaccccgac attcgatct cctccaaggg catttcaatc 360
atga 364

<210> 15411

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-H11

<400> 15411

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cggagagacc gaagaagcgg gagagatggc tcgtaccaag cagactgctc gcaagtccac 120
gggaggggaag gctcccagga agcagcttgc caccaaggct gcccgtaagt ctgccccac 180
cactggtgga gtgaagaagc ctcaccgcta ccgccctgga actggtgccc tccgtgagat 240
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cagggaaatt gcacaggact tcaaaactga tttgcgtttc cagagccatg cgggtgcttg 360
cctctaggag gctgctgagg cataccttgt tggcctgttt gaggacacca acctgtgcgc 420
catccatgct aagcgtgtga ccatca 446

<210> 15412

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-H2

<400> 15412

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aaataatgaa tggtttttga atgacagtgc cctctcaatt catagaaaga aatgcagtta 120
aggaagtact acaaattatt caagttgcta gggataggaa tattcctatt tattatccaa 180
cagatctctg gtgcttgaaa aatggcaaca gtgaaatata aggggtcatc aactctaccg 240
gacaattggc tggctggaca ccagctgata taggaccatc gacattggag aagatttctt 300
ctataattac atcatacaag aagatactgt ggattggccc tacaaactac ggtttaacag 360
aaaaaaattc agttgggtga acacagttgg gtgaaatact ggaaagtgca agctctgatg 420
gctgtgatgt t 431

<210> 15413

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-A12

<400> 15413

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gcatggtata ttgttgggtga tatatgttgg agtagttttg atgccaaaag aaaaaaata 120
aaaaaaacaa aaaaaaacia acaaaaaaaaa aaaaaacaaa gtaaaagaac acataaaaaa 180
aaacaaaaga aacgcaaaag acatatgcac tcataacaga aagaaggtaa tgcaaaagga 240
atggagggcg accccagacg tgaccgccgg atgtaccaca caagccacgg aattggcctc 300
aacia 305

<210> 15414
<211> 421
<212> DNA
<213> Zea mays
<223> Clone ID: LIB36-022-Q1-E1-A6
<400> 15414

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tcagctccag caatgggtgc ctccaccatg gcgatctcct ccacggcgat ggccggcacc 120
cccatcaagg tgggctcctt cggcgagggc cgcataacca tgcgcaagac cgtgggcaag 180
cccaagggtg cggcgctccg cagccccctg tacggccccg acccggtcaa gtacctcggc 240
cccttctccg gcgagcccc gagctacctc accggcgagt tccccggcga ctacggctgg 300
gacaccgcgc ggctgtccgc cgaccccgag accttcgcca agaaccgcga gctggaggtg 360
atccactccc gctgggcat gctcggcgcg ctcggctgcg tcttccccga gctgctctcc 420
c 421

<210> 15415
<211> 445
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB36-022-Q1-E1-B8
<400> 15415

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tgagccttgg gaaagttgca gtgtcattta cgcacacat caaggctatg gagcctttct 120
tttctgttat tctttctgca attttccttg gcgagctacc tactatttgg gtagtatctt 180

ctcttcttcc aattgttggg ggtgttgcac tggcatctct tactgaggca tcctttaact 240
 gggctggcct ttggagtgc atggcttcaa atgttacctt tcaatcccga aatgtattga 300
 gcaagaagct catgggtaag aaagaggaat ccttggacaa ccttaatctc ttctctatca 360
 ttacagtgat gtcatttttc cttttggcnc ctgttacctt ctttacagaa ggtgtcaaaa 420
 ttactctac atttttgcaa tctgc 445

<210> 15416

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-C2

<400> 15416

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 caccgtcatc tccggcgccg ccgagaggac gcctagcctg taaggacgga cgccacgccg 180
 cctagcaatg ccaagtcacg cgctgctgca tgccgtcttt gattttaccg ggataaaaag 240
 ctgtatgtga gggctctgaag aatgtgcaat gcccatgcgt gtaaattatc gagagggaga 300
 acaaaccttt tcattctgac tgtgataaac 330

<210> 15417

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-C9

<400> 15417

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 tcagttaaca tgttttgtgc tctgggattg cagtttgtat gaaatttgca gaattgatcc 180
 tgagatttat tttggctggt tagctgtcaa aaagactttg gtcttgacga cttgcctgat 240
 caagtagatc tggaatgaat aaacttaata gaagggtttt caaaaaaac aaaaaaatc 300
 aaaaacaaaa aaaaacaaaa aaagcagaag agacacaaca aaaagacaaa caatccaaca 360

agccgggtgt gtccttaat

380

<210> 15418

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-D6

<400> 15418

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gctccgcaag gccaccaccg cccgcccgtc cgtcatcaac aaagacgcgg acggcggcag 180
ctacaagcgg gcgcagtcga cgccgtcgac cccgacgacg ccggtgacgc cgtcgtcgtc 240
gacgacgccg cgcggcgccg gcaacgtgtg gcgcagcgtc ttccaccggg ggagcaacct 300
ggccaccaag ggcattggggc ccaacctctt cgaccggccg cagcccaact cccccaccgt 360
ctacgactgg ctctacagcg acgagaccag gagca 395

<210> 15419

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-E10

<400> 15419

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cgatgtcgca aatcgaaaag gcgaccgaca acttccactc aagaaatttc atcggaggag 120
gaggttatgg cccagtctac aagggaaaag tgggcagcac atcagtggct attaagctgc 180
tgaagcctcg tggtagacaa ggtttctcag agtatcagca agaggtgggtg gtgctgagca 240
aattggagca cccacacatc gtgaggctga ttggcgtgtg cccggagtcg tgcggcctgg 300
tgtacgagca cctccccaac ggcacgctca aggacaggct ctccaagggc ctctgtgga 360
aggaccgcgt caggatcctc ggcgagctgt cctctgcgt 400

<210> 15420

<211> 386

<212> DNA
<213> Zea mays
<223> Clone ID: LIB36-022-Q1-E1-E11

<400> 15420

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gcaaagtagc agtgggtgaac atatgagatg gtatctacag gccatgcacg gcccgtcgat 180
cgcccagtgg ctctgtgctg tgctctgtgc tagcaggagc tacactacat actcgtgagc 240
acgacaccta aaccacatg atcatgatta ttcaacatga gaatcgaact gatactggaa 300
ttaaacagac agaagggcct gttggttctt gccggcgatc gacgggaccg ggcgggcgag 360
ccgaagcggc caggcctact cgtcgt 386

<210> 15421
<211> 409
<212> DNA
<213> Zea mays
<223> Clone ID: LIB36-022-Q1-E1-E4

<400> 15421

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gtctccttca ccataaattt tgtctgagac aaagtatggt tcctagaccg tctgtggcct 120
aggcaatata atacttgga gacgctattg gaacgcaagc gcggaacgag catgtatatt 180
actctgttga tttatcggtt catgtgggtc ttagttcat atcacagaga gatcagccga 240
cggtatgctgt aatttctgag gaacctatgg aattcctgta gttcatgtgg tcctgtaatt 300
tctgaggact acctacctat ttccctgcag cactgcacct tgtaaaaaga ctttaaccgt 360
gtctgtagca gctggctact ggatttatta catctacaat aacagtcac 409

<210> 15422
<211> 393
<212> DNA
<213> Zea mays
<223> Clone ID: LIB36-022-Q1-E1-E9

<400> 15422

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cgaactggac tcgctggacc agaacctggc caagaacgag gccggcggca tcacggcac 120
ccggttcgag tctccgacg tcaagtccac cccgtccag ccctacagcg aggtgttcgg 180
cctccagcgg ttccgagagt gcgagctcat ccacggccga tgggccatgc tcgccacct 240
cggcgccttc accgtcgagt ggctcaccgg cgtcaactga cagcagctg gcaaggcggg 300
gctgggtgat gggtcctcct acctgggcca gccgtgcg ttcaacatct cgacgctcat 360
ctggatcgaa gtgcttgtga tcggctacat cca 393

<210> 15423

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-F5

<400> 15423

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gattggttgc ttgttgcaat gtggtttag aagaatggaa caagcatggc agagaggagg 120
ccgagcctgt ggcagaaatg aagaaccgaa gaagcattgc ccaagggta tggctcgagt 180
gccaaagtga gggattgatg ctaccttcag tgcttcagta gaatatgttc agcacttaat 240
tatggtaaac atgatgattt tgactgtttt gtgcttcaat tttgtaactg gcagttgatg 300
gttggcattc aaactctata atgttcacta cgtgtagctg tgtttttgac aatctgtaac 360
attctgctaa catttggtta agagac 386

<210> 15424

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-F7

<400> 15424

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aggccgcggc ggagtccggc gagggcggcc acggctgcag ctgcggtggc aactgcaagt 180

gcgacccctg caactgctga tcacatcgat cgacgacccat ggatatgatt attatctatc 240
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attgtgtggt gtgtgtgaga gagagagaaa cagagttctt cagtttgcta tctctctctg 360
catgtttggc gtcagtcttt gtgctcatgt acgtacgtgt gtccacctgc atgggtgggtg 420
a 421

<210> 15425

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-F8

<400> 15425

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gccgcgatcg ccaggcccaa tgctctacgg ctgcctgcgc tgacggcgag gagcgagagg 180
gtgcggtgca gctacgcaa tgacacggct ccagtcagca gcatgggcgc aggcgcgtcg 240
ctgctcgccg cagcgggcgc ggtgaccgcg tcggcggggc ccgcgctggc actcgtggac 300
gagcgcattg ccaactgagg caacgggctg agccctctgg gctcagcatc aacctgctgg 360
ggtggattct cctgggggtc ttcggcc 387

<210> 15426

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-G1

<400> 15426

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ggaaatcgga tttgaggacc caatgatatg ccgctgcatg gaaagtttca tcatttcattg 180
cctgtggtcg gtttgctcgt gaagattgct tttgtttgct gtggaagcgg gtgcaagtat 240
tacacagcag caatatcgga actgttgtga aggatgaagt tgagagtcaa catctgagaa 300

ccatggagct caccatacgc cacaaaggaa ctaaagctgc tagtttaggc atggttaaga 360
gagtcagtgc tggtccttta agttaataa gaactttgcg gggccgca 408

<210> 15427

<211> 177

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-G10

<400> 15427

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cgctcctgcc tacctgggtgc tcacgggtgag cgcagcaggt gtgctggaca gcggtgcctt 120
ctactcgggg ctgtagctgc gggcgcgtggg ctgtgcgcag caccctgtgc tgcgtc 177

<210> 15428

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-G11

<400> 15428

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gctcggcgag gtcgtcgacc cgctgtaccc tggcggcagc ttcgaccccc tcggcctggc 180
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catgttttcc atgttcggct tcttcgtcca ggccatcgtc accggcaagg gcccgctcga 300
gaacctcgtc gaccacatcg ctgaccagct caacaacaac gcatgggcct acgccaccaa 360
cttcgtcccc ggcaactaag ctcaaaggct atgctatgca acttcattgt 410

<210> 15429

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-G12

<400> 15429

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tcgctgtgtg cttgctgcag ccgttggctt cctgctttgt tcgggtgcta gctgccacgc 180
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ccggcggcgt ccaacatgga ctgcctccta gccgcgctt gcacgccggt caagctccac 300
ttcatcgacg tgtcctgccg tgtgaagcac acggagtggt cctcgaaagc cgtccccagg 360
cgggcggcgt atcgcaactc cggttcccgg cg 392

<210> 15430

<211> 266

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-G3

<400> 15430

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tcgtgttctc cgttgcgtcc gtccggatct gagaaaacct agatcttctt cgtcctgtcc 180
gtccctccgc gatcgatcaa cagacgtaaa ggctactgcg agtgctagtg ctagtacggg 240
tgtaccggcc gtaggtccgt gcgcca 266

<210> 15431

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-G4

<400> 15431

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aggctctagt tgagaggctt gtgtgtgtta tgagagttgt gctgcttctt tggttgttaa 180
cgtgcctcac ctgatctaga ttagtagact gttagttcta ctgctgcctt gctgttacat 240
atttacagtg ttcgcttctg tgggggttac aattgcttac tcgcttactc cgggtttgga 300

tgctaaatgg gcttcaatgt acaaagccat tatttcaatt attgcactgg taccatataa 360
 actaaccacc tgtcagttgc acttcccgtg gtttcaactgt caagatcact ccctgt 416

<210> 15432

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-G6

<400> 15432

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 cgacctgggc tcagcgcgcg cggccctggg cagcaagccg cagcgggagt tcgactactt 180
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 caacggctgc tgccgctcgg agcctctcca gacgtgcacg atctgtaagt gctcggcctt 300
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 gactgttgcc gctcgagcag ac 382

<210> 15433

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-H1

<400> 15433

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 gcatcgtgtg cccggcctcc agcagcggcg gcgtgaggct cccggccagc agcgaggtgt 180
 tcgcgtgcac ggtgggcaag aagccgagca tggccaagta ctacctggac gacacggtgg 240
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 cggcggcggc ggtgcagctc cgggtctcgt tcgaaggctc gctctgaggg ggggaacgga 360
 agtaaaacac acagcgcta ccggtaaaca gc 392

<210> 15434
 <211> 412
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-H7

<400> 15434

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ggccacggcg agtctcacta ccactgctcc ctcccctcca gctctcctca aagcatcagc 120
tcctttgctt atctcctttc gcccgtctc ccgccactgc aagaacctgt gcattcaagac 180
caaggccaca gaaaatgatc agtctgctaa aaagcatcag aagggtgaaga gcattctttg 240
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ttctgttgac tattttgaag gccgatttaa agctggatct ttatgctggg tgtgcagagg 360
caagcgtgaa atcctatgtg ggaactgtaa tgggtgccggc ttcttgggtg ga 412
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<210> 15435
 <211> 349
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-H8

<400> 15435

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ggcggcgaga cagatggcgc tggagctgct gaagatatac aggggtgaacg ccaagagctg 180
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agtgaatcaa ttaaatacgca tggaacatgg gaatgtgttc ttgttcctg 349
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<210> 15436
 <211> 279
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-001-Q1-E1-D11

<400> 15436

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ttcaacatcc tccagccggc gctcaaccag ctcaaccgca tgcgggccga ctgaagctag 180
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<210> 15437
<211> 189
<212> DNA
<213> Zea mays
<223> Clone ID: LIB36-001-Q1-E1-E11
<400> 15437

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ctcgccatgc ttgttgtgtg tttctttgat tgtacatgag aggaccggtt tctgctgcc 120
tccaagttgt ttgagaaatc ttggtactaa tattgcttcg tcttttttta aaaaaaaact 180
cttctgcc 189

<210> 15438
<211> 137
<212> DNA
<213> Zea mays
<223> Clone ID: LIB36-001-Q1-E1-H10
<400> 15438

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gctcaaaaacg gcgaaggtag atacgagacc tttgattctc acaagaaagg ggagatgagt 120
gcactgtcac gcaaaaag 137

<210> 15439
<211> 299
<212> DNA
<213> Zea mays
<223> Clone ID: LIB36-001-Q1-E1-H4
<400> 15439

acacggcaaa agattcacag attaaacgct gtttacattg ggaagtagta cataggtaca 60
ggcggcgtag agcatgcaat gcaacatata acgctgcatg catgtgtgca cgtgtagttg 120
attgagctca gcgccgcttg acgggatcga agttagagac agcgacgacg gcgccgacga 180
tggcgacgag cacgacgcct ccggagacga tgctgaggag gaagttcttg agcgacggcg 240
agateccggg cgccggcctcc gcgacctccg gcagcaccag cgccgccgcc acggccgcc 299

<210> 15440

<211> 385

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-001-Q1-E1-H6

<400> 15440

cacaagcgtc cgcaaggtag agggatcaa gaacggccgg ctggccatgt tctccatgtt 60
cgcttcttcc atccaggcct acgtcaccgg cgaaggcccc gtggagaacc tcgccaagca 120
cctcagcgac ccttcggca acaacctgct taccgtcatc tccggcgccg ccgagaggac 180
gcctagcctg taaggacgga cgccacgccg ccgagcaatg ccaagtcatt cgctgctgca 240
tgccgtcttt gattttaccg ggataaaaag ctgtatgtga ggggtctgaag aatgtgcaat 300
gccacgcgt gtaaattatc gagaggaga acacaccttt tcattctgat tgtgatanat 360
cntcnanagt gtcagcgaaa atcag 385

<210> 15441

<211> 110

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-002-Q1-E1-E1

<400> 15441

cggacgcgaa ggccacgcg tccgcgacg cgtgggcgtc atcagtggat gaatcaatct 60
atcgtggcc tgtgccattc atttttgaaa aagaagacaa aacagaaaag 110

<210> 15442

<211> 398

<212> DNA

<213> Zea mays
<223> Clone ID: LIB36-004-Q1-E1-A10
<400> 15442

aacacgcgtc cgaccacgcg tccgtgcgga tagagcagca gaggcagcga cacgatcgcg 60
agcgcacgca cgtaagcacg ttgtcgggaag ctcaagttag aagaagcacc agtgctgat 120
cgatggcggc ccaggctctc ctctccggcc ggcagctgct gggccgcccc gtgcagtcgg 180
ccgtctctag gtcgtcggcg aggaaggcgc ccttcgtcgt cagggccagc tccagccctc 240
cagccaagca aggtgccgac aggcagctgt ggttcgcgtc caagcagtcc ctctcctacc 300
tcgatggcac gctgcccgcc gactatggct tcgaccgct gggcctctcg gaccggagg 360
gcaçcggggg cttcatcgag ccçaagtggc tggcctac 398

<210> 15443
<211> 423
<212> DNA
<213> Zea mays
<223> Clone ID: LIB36-004-Q1-E1-B11
<400> 15443

aacacgcgtc cgaaaggctg tcaggcagat gattatggct cccacgcttg agctgaggca 60
gcaggcgctc gaccgtctct tgccgtatca gaggtctgac ttogaaggca ttttcctgtc 120
tatggatgga ctcccgtga ccatccgact cctggaccct cccctccacg agttccttcc 180
agaagggaac atcgaggaca ttgtaagtga attatgtgct gagacgggag ccaaccagga 240
ggatgccctc gcgcgaattg aaaagctttc agaagtaaac ccgatgcttg gcttccgtgg 300
gtgcaggctt ggtatatcgt accctgaatt gacagagatg caagcccggg ccatttttga 360
agctgctata gcaatgacca accagggtgt tcaagtgttc ccagagataa tggttcctct 420
tgt 423

<210> 15444
<211> 421
<212> DNA
<213> Zea mays
<223> Clone ID: LIB36-004-Q1-E1-B9

<400> 15444

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ggctggctat ggaggcggtc gcgaggcag cggggccgga gtgcatcgtg cccggacagc 120
aagcgctctt aaggcttatg gggctcaagg tctggcccgt tgatatagat atgaagttcc 180
tagagccatt tggacgggaa ctacattcaa tgaaaaaatt catggacaaa tctgtcagtg 240
ttatggactc atctatggca aacaagtagg cacatgacac atcagttccg tocaatacag 300
ctgttggtgt atccacctgc ttcctgaagt tacaagaccc gaaaaataga agagacattg 360
gagagaagcc acattctttt gcgtatcttg ctcaccgtca cctgacgaac aaaatatgac 420
a 421

<210> 15445

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-D10

<400> 15445

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tgatcatgtc gtcttgcgtc ggcggcaagt gcggtgcgg ctccagctgc tcttgcggca 120
gcggatgcaa cggctgcggt atgtacctg acgtggagac cgccgccacc agcagcgtca 180
agaccacggt cctcgccgcg ccgaccacca aggccagcgc cggcggcttc gaggcggcca 240
ccgagggcgg cggctgcgac tgcaacacct gcaagtgcgg caccagctgc ggctgctcct 300
gctgcagctg caactgagct ggcccggccc ggcgatggcg cagcagagtc gagaggagga 360
ggacgacgac gaggcgtata aatataatag cggcgtccag taaataagat cctgtcaac 419

<210> 15446

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-F9

<400> 15446

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ctcttaaatac tctaaataaa ttgctcctaa ctgaaaatga tatagttgat gatagcatct 120
gctgggaagg tctatcatgt cttcaaaagc tattgaattt atctttaagc gaaaaccgac 180
tggttagctt gccaccaact ttgggttcac tgacttctct togtgaactg tgtgttgcaa 240
agaacaggct tgataacttg cctgtagaaa taggactgct gaagcacctc caggtcctca 300
tagcaaataa caacaggata acttcattgc cttcatcaat aggagattgt, gaatctctca 360
ctgtggttca cctgtcatca aatctcttaa ctgaactgcc agagaccttt gcgaaccttc 420
gtaat 425

<210> 15447

<211> 267

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-004-Q1-E1-G1

<400> 15447

gacccacggg cccgcataat tcggaattag atttgtcaaa gaggagtgag tgaagttggt 60
cctcgttgtg actgtaccgg gcaagggtgc gtccccgccg tgcttaactt tatgatggaa 120
tttcttttca gagcacctac cacctgaaga tttgtgggat acgtatactc acttcggaaa 180
gaatgtagat agcaagcagt tgggcaagca caagatttta atttaaaaca tgattttggt 240
ctccaaaaaa gaaagagatg ggggtgg 267

<210> 15448

<211> 104

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-A12

<400> 15448

gggtcgaccc acgacgtcca attttttttt tttttctgac aaaactgggt gtaaaacaca 60
tgaaaaacaa atacacagaa aatttgagat atacataagc taag 104

<210> 15449

<211> 102

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-005-Q1-E1-G4

<400> 15449

attccaggggt cgaccgaccc gtccgcaaca ataaatgcaa caaattaatt gttgtacatg 60

tgaggaaaac aattaatgca acaaatacaag tacgtacttg ag 102

<210> 15450

<211> 212

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-B7.F1

<400> 15450

ggatcattct tttgagacca taggcaacaa atgatgattg gacttaçatg tttattggtc 60

gacatatgtg tttgtttcct gattaatata gttataaaaa gtaagaaatg actagctacc 120

aataccatgc atctaggtga ggcacatgct agctagtga ggcgcagcta gggctccttc 180

aagctttctct gctgacatca tccttcaagc tt 212

<210> 15451

<211> 608

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-B7.F2

<400> 15451

ggaatcattc ttttgagacc ataggcaaac aaatgatgat tggacttaca tgtttattgg 60

tcgacatatg tgtttgtttc ctgattaata tagttataaa aagtaagaaa tgactagcta 120

ccaataccat gcatctatgt gaggcacatt gctagctagt gtaggtgcag ctagggctcc 180

ttcaagcttc tctgctgaca tcatccttca agcttgctag taggagtcga gattgcgctt 240

gcgtagcttg cgctcgtcag agagcttctt ggcgagtgga gctagcgctt ctgcattcgt 300

cccctcgccg gagcagggct cgtacacacc tgtgtcgatg ttcactctgg ccactggctt 360

cttgagcagg tcttgccga tcccgatcag agactccatg ttctccttgg tcgcgatgtc 420

cactgatgat gtgttcccaa tcagagtatc atcctgaatg cgaaggtagt tcttctcaca 480

gtggagggcc tggaagagca cggcagcatg gatgtcgacc atgtcggagc tggcgtggga 540

gaagatgtcg atgatcgggg tgaagccgcc gttgtatagc cactgaaaga ggccccattt 600
cgcgact 608

<210> 15452
<211> 187
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-B7.R1

<400> 15452

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tccgagcact ccgatactaa aatccttctg tggattctct tctactcgag agctctgcta 120
gtccgatatc cagttaagtt tcagagacat ggagagcaac gcctcgtcca acagcgtcac 180
ggtgccg 187

<210> 15453
<211> 656
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-B7.R2

<400> 15453

cccacgcgtc cgcggacgcg tggcaagaaa cacaactgca aaagcgagga tcggagcact 60
ccgatcctta attccttctt ggattctctt ctactctaga gctctgctag accgatctcc 120
agttaagttt cagacacatg gagagcaacg cctcgtccaa ctgcgccacc gtgccgcagc 180
cgccgccgtc gacaggaag ctgatcacga ttctgagcat cgatggtggc ggcatccgcg 240
gcctcatccc agccaccatc atcgcgcacc tcgaggccaa gctgcaggag ctggacggcc 300
cagatgctcg gatcgccgac tacttcgacg tgatcgccg gacgagcacc ggcgcccttc 360
tcacgtcgat gctggcgggc ccggaccaga acaaccggcc gctgttcttc gcaaaggacc 420
tcaacacgtt ctacctcgag aacgggccca agatcttccc tcagaaaaag gccgggttcc 480
tgacgccggt ggccaacctg ctgggcctgg tgaggggtcc caagtacgac ggcgtgttcc 540
tgcacgacaa gatcaagagc ctgacgcacg acgtgagggg ggccgacacg gtgaccaacg 600
tcacgtgcc ggcgttcgac gtcaagtacc tgcagcccat catcttctcc acgtac 656

<210> 15454
<211> 106
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-E7

<400> 15454

tttacaagaa aaacacatta ctggatatca acaattaacc agcatgaaac ataaaccatc 60

actattgcac aaacatgggt catcttagtg tacaacgcc attcga 106

<210> 15455
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-H1.F1

<400> 15455

ggcgcccttt tttttttttt tttttttttt tttttttttt ttttttttac caaactgcaa 60

atagatcact aatcacggtt aaatgtctat ctaaataaat ataatagcca attttcagac 120

cccatttagtg taaaactgta aacgctaata caatatacac ccgttgctat gggttcgtgcc 180

actcttgcac attttcattt agtggaagga ggacaatatt ttgttattga ggggggtcgga 240

aagtgttcaa ccagtttctg tacagggccc ttgcctgtga cagcgggtctg gatgaaaaac 300

ccaaaccatg gtatcatggg agggcgctctg ttcttgattt ccttcacctt gagattttta 360

aatgctaggg gttcttttga caggccaag 389

<210> 15456
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-H1.F2

<400> 15456

accaaactgc aaatagatca ctaatcaccg gtaaagtct atctaaataa atataatagc 60

caattttcag aaccatttag tgtaaaactg taaacgctaa tacaatatac acccggttgct 120

atgggttcgt ccactcttgc atattttcat ttagtggaag gaggacaata tattgttatt 180

tagtgggtcg gacaagtgtt caaccagggt ctgtacagg cccttgctg tgacagccgc 240
 ctggatgtaa aatccaaacc atgctaccat cgcaaggga ccggtcttga tttctttcac 300
 cttgagatct tcaaatgcc aagggatcctt ggacaggccc aagggatcaa aaaggg 356

<210> 15457

<211> 279

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-H1.R1

<400> 15457

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 atatattctt ctgggtgacat aaactaccca ggaggacccc tttgttgatc ccttggggcc 120
 tgtccaagga tcccggtggc attgtgaaga tctcaaggat gaaagaaatc aagaacggtc 180
 gccttgcgat gggtagcatg gttatggatt ttacatccag gcggctgtca caggcaaggg 240
 ccctgtacag aacctggttg agcacttgtc cgtcccact 279

<210> 15458

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-H1.R2

<400> 15458

cccacgcgtc cgcagaatat gcaaggtatt gtgggatcga ggcactagaa ccattgggaa 60
 tatattcttc tgggtgacata aactaccag gaggaccct ttttgatccc ttgggcctgt 120
 ccaaggatcc cgtggcattt gaagatctca aggtgaaaga aatcaagaac ggtagccttg 180
 cgatggtagc atggtttggg ttttacatcc aggcggctgt cacaggcaag ggccctgtac 240
 agaacctggg tgaacacttg tccgaccac taaataacaa tatattgtcc tccttcact 300
 aaatgaaaat atgcaagagt ggcacgaacc atagcaacgg gtgtatattg tattagcgtt 360
 tacagtttta cactaatggg ttctgaaaat tggctattat atttatttag atagacattt 420
 aacggtgatt agtgatctat ttgcagtttg gt 452

<210> 15459

<211> 61
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-008-Q1-E1-A3

 <400> 15459

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 a 61

<210> 15460
 <211> 372
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-008-Q1-E1-A6

 <400> 15460

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 aaagcagcgg tgaacggcga ttgcgacggc gacggcgacc gctactactc ctccttctcc 120
 tccacgtcgt cgtcgacgga ggaggccagc gccaaacaac cagaagatga cgaagaagaa 180
 gtagaagagg agtggcagag caggggtgtg aagatgtgcg tgtacgtcat caccctgcgc 240
 atgctggtgg cgctgctgct gggcctgaac atgtcgtgga gccccatcac cgccgccctg 300
 gcgctcatcg tgctggactt caaggacgcc cgcccctgcc tggagaagggt gtcgtacccg 360
 ctgctgctct tc 372

<210> 15461
 <211> 514
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB36-008-Q1-E1-A8.F2

 <400> 15461

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 attaacaact aatgaagatg cagcgcacac catgcgtgta ataattctata agattttaca 120
 gtacagtaca gtgatcgatc atttctggaa caaaatatat atatggcgag tcttaaatta 180
 tatatggtat catcatcgtc atcgacatcg agcacgcatg catgcatcca tgcacgagct 240

gactatcccc gatcgaccgg cggcgtagca ggcgattgat tttgcctcat ctacaagcgc 300
gacgggatgg cgetgagctt gtcggactcg gtgatgatgt gcttgcgggg gatttcggcg 360
agggaggtgc agccgctgag cgccatggtg agctcgaact cgtcccgag catgcgcagg 420
acgttggaca cgccggcctc gcccgccgnc gncagggaga acaccaccgg cctcccgagc 480
aatacgccgg cggcgccgag cgcgagcgcc ttga 514

<210> 15462
<211> 54
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-A8.R1

<400> 15462
atcgaactca ccgtcgacac gccgcgcctt ggctgcaggg aagctggcat caag 54

<210> 15463
<211> 650
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-008-Q1-E1-A8.R2

<400> 15463
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gaccaggctg ctgattcagg gctggcttcc tatgtcgccg gccaaagtcga ccgcacctg 180
agctggaaag acgtcaagtg gttgcagacc atcaccacgc tgccgatacct cgtcaaggga 240
gtgctcaccg ctgaagacac gaggcttgcg gtggcgaacg gcgcggcggg gatcatcgtg 300
tcgaaccacg gcgcgcggca gctggactac gtgccggcga ccatcagcgc gctggaggag 360
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accgacgtct tcaaggcgt cgcgctcggc gccgccggcg tattcgtcgg gaggccggtg 480
gtgttctccc tggcggcggc gggcgaggcc ggcgtgtcca acgtcctgcg catgctgcgg 540
gacgagttcg agctcaccat ggcgctcagc ggctgcacct ccctcgccga aatcaccgcg 600
aagcacatca tcaccgagtc cgacaagctc agcgccatcc cgtcgcgctt 650

<210> 15464
 <211> 168
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-009-D11-F2A

 <400> 15464

 cgacattact gttcagttgc ccacatagct agcgggaagcg gtcaacatgg ttatTTTTctg 60
 tgatgaactg ctatacagtg acacattgcc acaacatgcg aatgcgggacg catagagtgt 120
 caaacactga actcatctaa tgagatgacc taacttaaata taattaat 168

<210> 15465
 <211> 349
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-009-D11-R2A

 <400> 15465

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 ctgtaaatat attaacaggc ccctatctgt tcgggtagat acacccttgg atgctatggc 120
 taggcgtatc gatagagtgg gtactgcta tcgcactact aaggaccaac catctgccga 180
 tccgcactca atggccgtac ataagctcag cgtgctcaca cagacaaggg ctaagtctta 240
 tccaaatcca catgtgacgg atcttatgga ggagattgca tgcacacagc ctcatgatga 300
 cgcttgtaag ctgacaccta ctgatagtc gatagagcca cttcataac 349

<210> 15466
 <211> 464
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB36-009-Q1-E1-C1.F2

 <400> 15466

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 cattctttta cgtctcatga ctacatatat ctccgagcat aacataacca tgccttttat 120
 ttcagaaaact gtacgagtaa aaaggcgacg agcaagcaag catcgcttg attattttaaa 180

ccctgtcgtc tgcattctga gaaagatgca aatggagctc cgaacgaaa ttattttattg 240
gcaagggttat ttgcccactt agattataag tcacgcatca tcatcatcag tacgacgggt 300
gcagcggcgc ttgcaaaagt tgacgatctt gtccttgac acaaagaggc cgtcggagat 360
ggacagggcg cacgccttgc aagccgggtg gcagccggtc gtcgacgtgt ccctgcactc 420
gcatatcggc ggctgcgacc tgggtgcaaat gccgcactgg tcgc 464

<210> 15467

<211> 605

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-C1.R2

<400> 15467

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aatccaagca gctgttgcaa ccggttcctt cgaggagaac gtgagaaaga agcatgaggc 120
cccagggtgct gctcgtcgca ctggccgtct tcgccgtcct cgtagctctg ccactgggca 180
aagcgcacga ggaggaggag gaggaagggc ttgaactcga agccagcagg aggcgggtggc 240
cgtgctgcga ccagtgcggc atttgcacca ggtcgcagcc gccgatatgc gagtgcaggg 300
acacgtcgac gaccggctgc caccggctt gcaaggcgtg cgccctgtcc atctccgacg 360
gcctcttcgt gtgcaaggac aagatcgtca acttctgcaa gcgccgtgc acccgctgta 420
ctgatgatga tgatgcgtga cttataatct aagtgggcaa ataaccttgc caataaataa 480
tttccgttcg gagctccatt tgcattttc tcaagatgca gacgacaggg tttaaataat 540
caaggcgatg cttgcttgct cgtcgccttt ttactcgtac agtttctgaa ataaagagca 600
tgggt 605

<210> 15468

<211> 78

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-H8.F1

<400> 15468

cggcgccttt tttttttttt ttttggtaa aggtggcct ttaccattaa caggactttt 60

accacacaaa agcaaggg

78

<210> 15469

<211> 589

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-H8.F2

<400> 15469

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tatggatgaa aaaaaagagg catacttcat gtaaaatccc accagcacgc cctaccaaat 120
tctcgatcat gacataacca gtcccacagg cacaataag gtaggtcaga gttctcaaca 180
ggtccttct aatggcatgg tttaacaaca gcaggcatgt agcaaatca tgaggactcc 240
tttttctctt ccgcggcctc ctcaaatgtc tctccaggga caagctcagg aacgtcatca 300
tcatcgctct gaacagcccc agcgtctggca ccagcctctg caccagaagc accagaggcc 360
tgcttctgga attgctctgc gagcctccgc agattgtcca ggttgtcagg accaagctgg 420
ttgataatcg acggaagcag atcttgcagc ttctttgtct gtggagttcc actgaccacc 480
catgtattag caccaattga cgcttgcact ttaggattta caaactgaat aacaacatca 540
tccttaaaga tgttgacctc ttcaatacca ggaatgctgt tcaactcta 589

<210> 15470

<211> 384

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-009-Q1-E1-H8.R1

<400> 15470

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ccgcgcgct ttccacttcc tctcccgagc caagatgaat gttgaaaagc tcaagaagat 180
ggcaggtgct gtgcgcaccg gaggggaagg gtagcgtgcg caggaagaag aaggcagtcc 240
acaagactac aaccacagat gacaaacggc ttcaaagcac cttgaaaaga ataggagtga 300

acagcattcc tggattgaa gaggtcaaca tctttaagga tgatgttggt attcagtttg 360
 taaatcctaa agtgcaagcg tcaa 384

<210> 15471

<211> 628

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-009-Q1-E1-H8.R2

<400> 15471

cccacgcgtc cgcccacgcg tccgcggacg cgtgggcact cccgggtctc cagcattcct 60
 atcctctccc cgcccgcctg tgccgcgcgc gcggcttccc ttcctctccc gagccaagat 120
 gaatgttgaa aagctcaaga agatggcagg tgctgtgcgc accgggggga agggtagcgt 180
 gcgcaggaag aagaaggcag tccacaagac tacaaccaca gatgacaaac ggcttcaaag 240
 caccttgaaa agaataggag tgaacagcat tcctggtatt gaagagggtca acatctttaa 300
 ggatgatggt gttattcagt ttgtaaatcc taaagtgcaa gcgtcaattg gtgctaatac 360
 atgggtgggc agtggaactc cacagacaaa gaagctgcaa gatctgcttc cgtcgattat 420
 caaccagctt ggtcctgaca acctggacaa tctgcggagg ctgcagagc aattccagaa 480
 gcaggcctct ggtgcttctg gtgcagaggc tggtgccagc gctggggctg ttcattgacga 540
 tgatgatgac gttcctgagc ttgtccctgg agagacattt gaggaggccg cggaagagaa 600
 aaggagtcct catgattttg ctacatgc 628

<210> 15472

<211> 90

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-C2

<400> 15472

ggtcgaccga cccatccggt ggagatattc ttgaggcatg agtaatgcta catgcatgtg 60
 atgtaaacaa atacagggtc agtccaaat 90

<210> 15473

<211> 128

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-H2.F1

<400> 15473

tatagagaca tgacgcgatg acgcgtacgt aacttggacc caagagggcg cctttttttt 60
tttttttata attaaacact ccgagcactt tattattata tgaattatta cagaggcaaa 120
atgggcac 128

<210> 15474

<211> 520

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-010-Q1-E1-H2.F2

<400> 15474

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acatacatat agtgatacag ctgcaatata catgaacacc ctttgtctcg ctctgtcttt 120
atctatgcaa ctgctggcat gcatgcaaaa gacgcctcgg gagataagac ccctgttatt 180
ctgctagtac gtatgcatgc atgtgcacga tcgatgggcg cgatgggtcat atcatccgtt 240
ggttcagtag tagggctgga tcttccagcg ctgggtgtcg ccctcgcacc acttccagag 300
cacgacgttg gtgccgtcac ggacgccgcc gtgccacttg tcgccgtgga gggcgctcga 360
gttgaggtag atgttggtga ccatgccggac gcagcggaaa ccgttgccga cgtcgcgggt 420
cttcgtccac agcaccgact cgtncaaaaa gtccgggttg tagggcacca ggcgcacccg 480
gtgggactgc cccancgagt gcttgatggc ctccccggtc 520

<210> 15475

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-010-Q1-E1-H2.R1

<400> 15475

tgcaggacgg tcggaatgcg gggtcgatca cgcgtccgaa tcgccagagg agttgttgat 60
cgaggtgagt gaggttgaaa agcacaccat gcgtcagtg acggcaggat actaacggcg 120

gtcgcgatca gcgctacagc ggcggtgtac tacggggcggc ggtgtgcatc gcaacgccgt 180
 gggatacgtc ccggcggtac ccgtaacggg attgtgcag gtagaacatt gcgagggcaa 240
 cgggtgtgacg ggcgaggcgc tgccgccgca gccagatccg tagaagggtg aatggccgcg 300
 ccaaccccaa ctaatcgcca tgagcgtc 328

<210> 15476

<211> 625

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-010-Q1-E1-H2.R2

<400> 15476

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 gcatcgcaac gccgggggtac gctccggcgg tcccgtagcg gatgtcgcag gtgaacatcg 180
 agggcaacgg gtgcggggcg gcgctgccgc cgcagccgac cgtgaagggtg tactgccgcg 240
 ccaaccccaa ctacgccatg agcgtccgcg acgggaaggt ggtgctggcg ccggcggaacc 300
 ccaaggacga gtaccagcac tggatcaagg acatgcggtg gagcacgagc atcaaggacg 360
 aggaaggta cccggcggtc gcgctggtga acaaggcgac cggggaggcc atcaagcact 420
 cgctggggca gtcccacccg gtgcgcctgg tgccctacaa cccggactnt ntggacgagt 480
 cgggtgctgtg gacggagagc cgcgacgten gcaacggttt ccgctgcgtc cgcgtggtca 540
 acaacatcta cctcaacttc gacgcctcc acggcgacaa gtggcacggc ggcgtccgtg 600
 acggcaccaa ctgctgctct ggaag 625

<210> 15477

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-011-Q1-E1-D12

<400> 15477

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gtagttcacc ttgttgaacc gcaccaccac cgggtaacgg gtgttaggat cctgatcgac 120
 ggtgacgacg ttgccgatcc cgttgtacca gtaggactcc cgcctcagga tcttcacctt 180
 ggcgccccctc ttggggccga tcggcggcgg cttctcggcc ttgggcttgg tggccacggc 240
 gccctcccct tccgccgtgg gcgcgggtc tgccggggac tcctcatcgg cccggaccac 300
 aagcctcctg ccaagccggt tgggcgccga ggcgaagctg ac 342

<210> 15478

<211> 599

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-012-Q1-E1-A7.F2

<400> 15478

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 acacgacgcc ggcaggggaat accttcccgg acttcttgaa gcgcgacccc atcactgaca 180
 gtagcgcggc cgatatacct aaaccgatcg atgatgcgag gacaggtctc actgggagtt 240
 gagtgtggac gacgtacagg accagggctg atatgcctcc tgcagccaag gatttctggc 300
 ttccactctt catatatccc attacaccac cagctccgac gagcgcgggc tangcgaggg 360
 tgagtttctg cgacatggac aggccttgcc ccatcttctc ttctccccg tctccttct 420
 gccctcctcc cctcgggtcg ctgcgcgcgc cgctccctcc ggcaccgtcg ccggcccccg 480
 atccgccgnc gncgagctcg ggttccttgg tcgcgacngc cgcgatgatg cngcgggtggg 540
 agagggagac nggggcgggc gacncgcggc gcgggagcag cancagcgag gactgggag 599

<210> 15479

<211> 215

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-A7.R1

<400> 15479

ctggaacgct gcaggaacgg gtcggaattc cgggtcgact cacgcgtccg accgctgaga 60
 agtcagtcag cttcagcacc acgagcacga tggccctcgc gctcgccacg accccactcg 120

cgcatctcgc ccttgccccg ccctcgatct tcggctccca gtctctcgtg ctgttgctcc 180
 cgcgtcgggt tcgccccgcc tcgtctcact ctgca 215

<210> 15480
 <211> 553
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-012-Q1-E1-A7.R2
 <400> 15480

accgctgtga agtcagtcag cttcagcacc acgagcacga tggccctcgc gtcgccacg 60
 accccactcg cgcatctcgc ccttgccccg ccctcgatct tcggctccca gtctctcgtg 120
 ctgctgctcc cgcgcgcgcgc gtcgccccgc cccgtctccc tctcccaccc ccgcatactc 180
 gcggccgtcg cgaccaagga acccgagctc ggccggcgcg gatcggggggc cggcgacggg 240
 gccggaggga gcggcgggcg cagcgacccg aggggaggag ggcaggaagg agacgggggag 300
 gaagagaaga tggggcaggg cctgtccatg tcgcagaaac tcaccctcgc ctacgccgcg 360
 ctcggtggag ctggtggtgt aatgggatat atgaagagtg gaagccagaa atccttggct 420
 gcaggaggca tatcagccct ggtcctgtac gtcgtccaca ctcaactccc agtgagacct 480
 gtctctcgat catcgatcgg tttaggtata tcggccgcgc tactgtcagt gatgggggtg 540
 cgcttcaaga agt 553

<210> 15481
 <211> 113
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-012-Q1-E1-C7.F1
 <400> 15481

gaaaagcaac catgataaaa ttatctaagc aagcatgttg tccacagata tccgctcaag 60
 ctggcagggc atgggttaca tgtctaaaag aaggggggtg ttgacaaaaa taa 113

<210> 15482
 <211> 576
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-C7.F2

<400> 15482

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gctgcatggc atacgataca tgcttaaaag aaaggggtgg ttgacaaaaa taacactaag 120
tagtcagctc cataatggcg gtgacgatgt ctccattaga agctttgagg gccttgaccg 180
ccctgggcct cgaaacagat gcctgagtca tcaccagctc gacatccttg gcctcgacac 240
cagtttcgtc aaacctctcc tcdtcgttgt cctccaggcc caggccagat gtctcaggct 300
tcgggatcat ttgggtcagg tcaggagcct tgaactgctc tgcagcttgg gtctgcagct 360
gggagctgag gtctctgata ttcgcctcgc cgaatatgac ataggtgtcc gagtttgggc 420
tcttgaacac atctggcttc gagatgacaa aaagcatatt cttgcttttc ttcacagtga 480
cccggctgac accagtgatg ggcttcatgc caagcttcag catggccttg cggctcttct 540
tctcactcct gctttgcttc gacttgccac tcccat 576

<210> 15483

<211> 160

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-C7.R1

<400> 15483

gggcggacgc tgggggttcgt gcttgtatgc tctagggttt ttgccacgcc gccgcccgtc 60
tgcccccttc accccaccga tataccaaga tgcgggcgca ggctgcggag gagctcgccg 120
cccagattag agcagcagaa gctcgaagga cagaagaccg 160

<210> 15484

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-012-Q1-E1-C7.R2

<400> 15484

cggacgcgtg ggcggacgcg tgggcggacg cgtggggcga cgcgtgggtt cgtgcttggt 60
tgctctaggy tttttgccac gccgtcgccg ctctgccctt tccacccac cgatatacca 120

agatgacggc gcatgctgcg gaggagctcg ccgcccagat cgagcagcag aagctcgagg 180
 agcagaagac cgaggcagaa gatgttgtgg tggacgagga tgactaggat gatgaggatg 240
 acgatgatga tgacaaggat gatgatgaac tggatggaca ataaggggat gggagtggca 300
 agttgaaact tagc 314

<210> 15485
 <211> 74
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-012-Q1-E1-E12
 <400> 15485

tgcgagacac tacactagat cgaggcgcac gaaggcatta accatggtcg gcgtgaactc 60
 cagcgtcgtc gggc 74

<210> 15486
 <211> 299
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-012-Q1-E1-F5
 <400> 15486

aaacgaacct tcctttgtta tgtacgtagt agcattgtac tttaaagaga tctattcgat 60
 cggagaacca atgcaactac ttgagtacta ttattgccca tgtattgtgt gctgtatatc 120
 ttctgtatac aaaggaaggt tcgtttgtta tgtacgtagt agcattgtag tttaaagtga 180
 tcgtattatc tatctgctaa attcttcttt ttgatttagc aaatttattg tacgtaaaca 240
 aaaataaggg taaaacaaat agagtgtgta atctaaaagg tcagcaacca ccgaacaag 299

<210> 15487
 <211> 185
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB36-013-Q1-E1-E10
 <400> 15487

cccacgcgtc cgcccacgcg tccgcccacg cgtccgcca cgcgtccgaa aaaaaacaag 60

cgccaggcaa ttcaaaaaaa acttcataca ggacaaacgg gtgtcagaga agaaacctgt 120
gaagaagcaa gaacctggaa aaagcaaaaa aaaccccacg cgtccgcaat ttcaaattca 180
cgggg 185

<210> 15488
<211> 62
<212> DNA
<213> Zea mays
<223> Clone ID: LIB36-015-Q1-E1-F12
<400> 15488

gtcgaccgac gcgtccgccc acgcgtccgc aaccatttac gctatactcc gtactgctgt 60
gc 62

<210> 15489
<211> 227
<212> DNA
<213> Zea mays
<223> Clone ID: LIB36-015-Q1-E1-H12
<400> 15489

gtcgactgaa cgtcgcgcca cgcgtccggt gtcggcctt cttataagtc tcagtactcc 60
cttatacttc ttactgagga tggctgattg agctagcata tatttcagac ctacactttt 120
gttatcactc cgataaaata atataaaatt tttgtaactt gtaaacaag tgccaatgga 180
cgtagacgca aaacggagcc gcagcgtctc agtatcaggg cggatgg 227

<210> 15490
<211> 239
<212> DNA
<213> Zea mays
<223> Clone ID: LIB36-016-Q2-E2-C2
<400> 15490

gcttactctg aaaaccgaga gggaaaagaa gcgtgagaag tacttcccca tgaggaagta 60
tgctatcaat gcctatgtca gaactgtgag atgctgtgct tagcatatca tccgctgtgt 120
tttaattttt ggtttgtatg gacatttgtt gtgggtcgga agtacgatgt attcctctgt 180

ttctataaat ggctagattg gtttgactgg caaaaaaaga ggtggcgaca aaaaagaag 239

<210> 15491
<211> 124
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-A3

<400> 15491

taccagccta cctctcttct acgcgtcgtt gaattgatca ccagccagcg ccatgggcac 60

gtccatgacc gacttcgctg tgctgtccca tccgtccgct ggctcgggga tcccctgggtg 120

ccgt 124

<210> 15492
<211> 248
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-G10

<400> 15492

tactatacaa cggtgaagtg atgagtccta gaacagcatc tgggtcatgt tattgggtgat 60

ttgaactcta taacaggaca ggtcaacatc ttcggggata agcctgggtg actcaagggtg 120

gttgattcgt ttgtgccact tgctgagatg ttccaatacg tcagcaccct ccgggggcatg 180

accaaggggc gagcgtccta gacgatgcag ctgcgcaagt ttgacgtcat cccacagcac 240

atccagaa 248

<210> 15493
<211> 80
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-017-Q1-E1-H7

<400> 15493

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gaggcgtgtg aggacatcg 80

<210> 15494
 <211> 303
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-A12

<400> 15494

tgcaacggga gccacatcac cgtagtcoga ccctcgata acaatggcca ccgtcctagg 60
 cagccccgc gcgcgggct tcttcatctc gccgtcctcc ctccgtgccg cgcgggcgca 120
 caccgccgtg gcgctgcctg cagccaaggt gggcatcatg ggccgtagcg ccagcatcag 180
 gggcaggctg cgcgcgcagg ccacctaaa cgttaagctg atcacgccgg agggggaggt 240
 ggagctgcag gtgctcgacg acgtgtacat cctggaccag gccgatgagg acggcatcga 300
 cct 303

<210> 15495
 <211> 139
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-B5

<400> 15495

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 gaagtctgag ataatgcatg tatgcttgac ggcgagatct gagggaaaat aatttctata 120
 tatgcatgtt tcgagaaaa 139

<210> 15496
 <211> 52
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-C10

<400> 15496

gtgggacgtc gcaagactct atagtgagtc gtagtatatg ttcgcaaaca aa 52

<210> 15497
 <211> 253
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-D4

<400> 15497

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actacctcgg tgccggcgcc acctcgtcgt ggtgctcgtc gtctgtctcc tcggggcgcg 180
agggcgctgg ggcgtccgc gcgctgctgc tcaggcttca ggggtgctat gacgctccct 240
gccgctgcgc gga 253

<210> 15498

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-D8

<400> 15498

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tcttcggcgg catctccggc gtgctctggg cctactttct cctctacgtg ctgcacctcc 120
cctacttctt caagtagaaa tcatcaaaga tgcgtatata tatagctccg gccgacctc 180
ctctctagct gcatgggatg taggtgggtg ggtccttggt tcatttccact ccagcgggtga 240
tcagcgccgt gtagaaatgt aattcctctg ctttgacat ggatggattg ggatgtgaga 300
cacggggagg tgagaagggg 320

<210> 15499

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-E6

<400> 15499

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atgaacatgg gtgggggtgc cccgtcgaca gtccggtgca agcactgcag cacgcagctc 120
accgtgtgcc ccggcgagcg cgccatccag tgcacgcaat gctgcggcgt gacgcgtatc 180
cggcggcgcc ggggtccagc gccggcgggc gcgccgccca ccacgggctt cgcgcgcgcc 240

cgcggaaga agcgggccct cctgatgggc atcacgtacg ccggcacgcg cccgggctgc 300
 gggcatctga ggggggcccct caacgacgtc aagtgcata ggcaactcct cgggcaacgc 360
 tgcggcc 367

<210> 15500

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-F12

<400> 15500

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 tcattgggaa gcacacgggg agagagatct cagtacatag gtacaacaac acacaacgac 180
 gcatgcagct caaccccgcc tgacgggatc gaagttagag acggcgacga cggcgccgac 240
 gatggcgacg agcacgaccc caccggagac gatgctgagg aggaagttct tgagcgacgg 300
 ggagatcccc ggcgcgccct ccgcgacctc cggaagcacc agcgccgccc ccacggcagc 360
 c 361

<210> 15501

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-019-Q1-E1-G11

<400> 15501

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 cggcgccctac cgccgtggcg ctgcctgagg ccaaggtggg catcatgggc cgtagcgcca 120
 gcagcaggcg catgctgcgc acgcaggcca cctacaacgt gaagctgac acgccggagg 180
 gggaggtgga gctgcagggtg cccgacgacg tgtacatcct ggaccaggcc gaggaggacg 240
 gcatcgacct gccctactcc tgccgcgcg ggtcctgctc ctctgcgcc ggcaaggctg 300
 tccccggctc cgtggacgag tccgaccaga gctacctcta cgacgggcag atcgcccacc 360
 gctgggtg 368

<210> 15502
<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-A2

<400> 15502

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gcctacgcca ccaacttcgt ccccggaac taagctcaac ggctatgcta tgcaacttca 120
ttgtctttcg gatcggagag ggtgtacgta cgtggattga ttgatgctgc gagatgcatg 180
tgtgtctttt gtttcacgtt gcattgcata cgcaagtcga gatgatgagt tggcggttga 240
cactaagatg aaccatgttt gtgcaatatg caaaaggcaa ggatttgcaa ag 292

<210> 15503
<211> 177
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-D5

<400> 15503

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taaagtatgc aaatcatgaa tttttttcga gcagtctgat gtgtactgaa ttgcaaattg 120
acaatttgaa ctgcatggat ctgttgaaat aaacggagtg cccatttgat caacaac 177

<210> 15504
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-F9

<400> 15504

agcaatgctc ctgctgaac gtgactgcac ggagagcagc aagcgtcgc cagggccaca 60
ggtgccgacc cgaagcatcc ggcagctcgt ggggtgcgga ctgacgacct gtacgatctg 120
ctgggcgtgg agcggtcctc gccgcagtcg gagatcaagg cggcgtaccg gtcgctgcag 180
aagcggtgcc acccggaagt ggccggcgcc gccggcgccc acgacatggg cgtcgtcctc 240

aacgaggtgt atgogctgct ctccgacccg gacgcgcgcc tggctctacga ccaggagcac 300
gcgcgccgct ccgag 315

<210> 15505

<211> 301

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-020-Q1-E1-G6

<400> 15505

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atcgatcagc ctgcgcggatg aaccagatcg gcaggcgtag gtgccaactt tctgcaggtg 180
atccacctca gagatccaag gtcgcgatct tctgtgaact cctgaccagg ctctcgaacg 240
tgatcgggct atcagggggc gtcattcacga gacagcgatc gagcatatac tgggggctcg 300
t 301

<210> 15506

<211> 174

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-021-Q1-E1-D3

<400> 15506

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tctgcaggag tccgtgaccc caacggcctt cttttcatgt tcggaatggc gctc 174

<210> 15507

<211> 241

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-A1

<400> 15507

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gagaacctca ccagcaacgt caagtccgtc cactacagtc gaacattctt gtcgatcatt 180
ggtaggagttg ttgctggaat ctggggattc acaggcttga cgggatttgt cttctacttt 240
c 241

<210> 15508

<211> 99

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-A8

<400> 15508

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<210> 15509

<211> 208

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-B6

<400> 15509

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ggcatgtctc gtgctgactc aagctgtcac gcccatgtgc ttcttgacac cgattatcaa 120
ttcagtagtt gtgattaacc aaatttttat gtgtactggc agaaccagc tgcaattgca 180
atgaagctcg atgttgctct atcaaaaa 208

<210> 15510

<211> 182

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-C12

<400> 15510

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ccatggccac acaagcctcc gccgccacgc gccacttgcg ggccgccgcc tgtgcgccgg 120

cggcgaagcc gcggcagctg agctcgcagc tcgcgctgct gtcgctgctc tcccgcgggc 180
cg 182

<210> 15511
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-C8

<400> 15511

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cggcaagctg gtgggtcatcg acttcactgc cgcttggtgc ggtccatgcc gcgccatcgc 180
cccactgttc gtcgaacacg ccaagaagtt cactcaggtc gtcttctga aggtggacgt 240
ggacgaagtg aaggaagtca ccgcggccta cgaggtcgat gcgatgccga ccttocactt 300
cgtcaagaac gggatcacgc tcgcgaccat cgtgggtgcc aggaacgacg ag 352

<210> 15512
<211> 216
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-D7

<400> 15512

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cttcgcgcgc cggcagcttc gccgtggtca ggtcccccaa ggtcgatcgc ggccagcacc 180
cggccacgct agcagcaacc gatgccaggc ccgcgc 216

<210> 15513
<211> 260
<212> DNA
<213> Zea mays

<223> Clone ID: LIB36-022-Q1-E1-H4

<400> 15513

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 tgtcaactga tgctttggcg catctctgca tctccgcgct gtgctccac agaacgcgag 180
 acctgcccac gaatagcatg cggaaatggg cggccgcct gcaggattca agcttaatta 240
 cccgtgcatg caagcctgc 260

<210> 15514

<211> 603

<212> DNA

<213> Zea mays

<223> Clone ID: LIB36-007-Q1-E1-C1.F2

<400> 15514

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 tacgaaacta agcacatggg caagaatact ctgcctcac tccatttctg gaccgcgacc 180
 caagacttct gccacgacca gcagaagctg ggggacacc ctgaccctc agccgcaaaa 240
 tccgtagagg gtgcggccct gccgcttgag cgcgtagacg acgtccatgg cggtgacggt 300
 cttacggcgg gcgtgctccg tgtaggtgac agcgtcgcga atgacgttct cgaggaagat 360
 cttgagcacg ccgcgggtct cctcgtagat gagccccgag atgcgttca cgccgccct 420
 tctcgccagc ctccgcatcg ccggcttctg aatgccctgg atgttgctgc ggaggacctt 480
 gcggtgacgc ttcgcgccgc cctttcccag ccccttccc cctttccgc gccccgacat 540
 ggtcactcga actctgagga gaggttgaca attgggaatt tggaggtagg gtatggctgt 600
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<210> 15515

<211> 635

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB36-007-Q1-E1-C1.R2

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 gggctgggaa agggcggcgc gaagcgtcac cgcaagggtcc tccgcgacaa catccagggc 180
 attacgaagc cggcgatccg gaggctggcg agaaggggcg gcgtgaagcg catctcgggg 240
 ctcatctacg aggagacccg cggcgtgctc aagatcttcc tcgagaacgt cattcgcgac 300
 gctgtcacct acacggagca cgcccgccgt aagaccgtca ccgccatgga cgtcgtctac 360
 gcgctcaagc ggcagggccg caccctctac ggatttggcg gctgaggggn tcaggggtgt 420
 cccccagctt ctgctggtcg tggcagaagt cttgggtcgc ggtcacgaaa tggagtgagg 480
 cgagagtatt cttgcccatg tgcttagttt cgtaggttta tcaactctaga ctctagtgcc 540
 ttgggtccagt agtagcatac gacttgtact gcatttactt gtctgaacc tctaaatatg 600
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<210> 15516

<211> 543

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-006-E8-F2A

<400> 15516

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 accatgggcg ccatgccaga cgccgcgtcg ggcacaaccg ctgcctccga cgatgacaca 180
 ctgtggttca cggagtgate ggagtagaag agcttgggtc cggcgaggtc gagctctggg 240
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 tcgaggtagc ggtcggagtc cgcgaagaac acctccgtcg tggcgcttc tttctgcccg 360
 tggtcgggct cggggaggag ccaogacgcc gcctcgtcct cgttgctccc gtcgtcgtcg 420
 gttgctttgg gcggcgccgc cgaggcgaaa ggcttgggcg cgtcggccag cgcgccgaag 480
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<210> 15517

<211> 380
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-001-Q1-E1-C12
 <400> 15517

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 atctacaacg gagttgcata tgccctggcta tctacagga tcatcagctc tccggttgtc 180
 cagcatccca ctgatgatac aacatcccgc tactgggttct tccttctcga tgacagcggc 240
 ctctagatc ttggccaagc ttgggacttt gaccagaaat ggctgatga acttggccac 300
 gaaatcctcc tccgtgatgg cagcgatgtt gttgaagtcc ctgccgcgcc acagccgcgcg 360
 cgctgcagc accctcatca 380

<210> 15518
 <211> 352
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-001-Q1-E1-D10
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 aagtcacatc tcaactcggc ctctcaatag gcacatgtat acatttcttt ttacatatac 120
 acatcgggca cgggtacaaca ttatttaatt caattatctt tgcaacttaa tatcctgatt 180
 aggataacc acctaattta tgctgacaac attcagagca ctgaggtaca ccaaaaccca 240
 acagttcaac acccgtttgg atccacatca aaacaggag tcaagatagc agtagttgta 300
 caggcggcca aattgtagca aggtgcata catcctaaat ccacacacaa cg 352

<210> 15519
 <211> 225
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-001-Q1-E1-D9
 <400> 15519

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 tgtatcggtc aggagctgtc tctcgtaggc aacgacgctg cgtctagatg tctcagagca 120
 tggatgaagc gtttcgggct cgccgcagtg agagggaaca gtcttctctg cattgtatct 180
 ggcaccggtt cttctggggt gggggcgaag gagaaggatg aagga 225

<210> 15520

<211> 64

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-E3

<400> 15520

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 gggg 64

<210> 15521

<211> 241

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-D6

<400> 15521

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 tcgcccggcc gggcgcgct ggggtgccgc gccgcgccg ccgggcgcgc ggggtcggtg 180
 gcggcgcggg cggagctcgg ccgggggcgg gtgatcggcg ggagtgcggg cgtgtcgcg 240
 g 241

<210> 15522

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-F10

<400> 15522

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ggactcgatc agcaattaag cgaacctcgc cgcgatcgta tcagccatgg cgaccgccgc 120
 gcacgagggc gtgaccagc gcgtcgctgc cagtggcagc agggacgacg gcgccagcgg 180
 cggcacgcgc gcggtctcgg gtcacaacaa gaagccgggc ggccggcagga ggccggcgcgg 240
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 cgccgcgggc cactcgacgc cgccgcgag ttccgccacg gtggccgtgg tgccggccgg 360
 gtcggtggcg gtcggagcgg tgccggcgt ggccggcgtgg atggcggtggg cacgagggcg 420
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<210> 15523

<211> 71

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-F2

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acgttccggg g 71

<210> 15524

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-B12

<400> 15524

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ctgttgaaca accaaggcaa tacaaggag ccatccccta atttacagaa tactaatgga 120

actttgcgca aagaagaagc aaatgaggat gccaaatgat tcagaccct accattgttt 180

cggggacaat ttatcagtag atcacggcgt tacaatttac cagatagtcc cagggctttg 240

tttctttgcc ctacatctg ctgtaaaaat tataactttg gccacagaca aactgcataa 300

ctttgtacat aaactgaatg cttcctaaat atttgttccc ttatatagtt atatgtgaat 360

tgtatgaagc tcaaggaaag atgtttcatt ccacagaatg tgatagttga aaacatccgc 420

atttcaaaaa gataa 435

<210> 15525
 <211> 166
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-004-Q1-E1-D10

 <400> 15525

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 ccgattcagc gaggtcaccg tttgtgtgtc gatatatagc gcgaagtccc agtttgttcc 120
 gatggatcac gggaaacagc aaggcgccag acgacgagcg gccggc 166

<210> 15526
 <211> 204
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB83-004-Q1-E1-E11

 <400> 15526

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 cggccgactc cgctctccg gcgctccgtc cgcttctga actcgtctcc ctcagggccg 120
 ttcgctccc tccgcgcgtc ggcctcagc tcgtgtatga caccgcggtt ctgtcggtcg 180
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<210> 15527
 <211> 143
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 15527

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 ctgacgaggc cccggtcgct cgt 143

<210> 15528

<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E1-G11

<400> 15528

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gcggcgccat ggcccaggag gtgctgctgg gcgcaggcga cgccgggctc gtcttcgagc 180
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cgcacgagga gtacctcaac gcgccaggcg agacctactc cgtcaccctc accgtgccgg 360
gcacctacgg cttccactgc gagccgcacc aatgagcagg aatggtcggc acgatcacag 420
tcaactaaa 429

<210> 15529
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-A5

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tgccgtcgtc gtccgccttc gccgaggccc gcgtgacgat gcgcaagacg gccggctaagg 180
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gggacaccgc ggggctgtcg gcggaccgg agacgttcgc caataaccgg gagctggagg 360
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<210> 15530
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-B5

<400> 15530

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tccactcgtg cccctgtatg aagctggcga cgctgtacgc gtcgacgtgg accttgggaa 180
cctggctgct ccacgccacc ctccggcccg cggcgctgcc ggggccggcg ctgtcgtact 240
cgccgtagta gagcgtctgg agcgcgaagt ccccgttcca cggcatccac ccctgcccgt 300
gcacgatctc cgcgagcgtg caccgcacgt acacggtgcg gg 342

<210> 15531

<211> 119

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-E10

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aagaaagact gactgccgca cgtttggcac gaagtagcaa gacagatagc ttggggcg 119

<210> 15532

<211> 94

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-F10

<400> 15532

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<210> 15533

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-F9

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 caaagctaac aatggatgag gctactttcc gtgacatoga cgagaagaag ttggaaattt 180
 atatcgcgag agttaagctg cagagagggg atgatagcga tgagaagttt caggagcggg 240
 ctaataggag acagtcagat cctgaagagc ttgtgacatc attgactgag cagtgcaaga 300
 gatgtggggt gagagctaa 319

<210> 15534

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-A12

<400> 15534

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 gggcaaatgt aaactggacc ggtgaccacg caccgggtga ggaagacggg gagccatcaa 180
 tcagttgtcc ccctcgggct cgaactccgg gtcgccgtct ggggtgcatct ccctccactg 240
 gtccctcgggc cagtactcct tgatgtggcc ccacttcttg cggaacttct cgatctggct 300
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<210> 15535

<211> 246

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-A1

<400> 15535

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 agcggggggc aagcgggtgg agcggggcgc gcccgatggc gtccgcgccg ctctggtgcg 180
 gcctggcggc cgtctgcgcc ggcattggaga ggaacgggtc agcgaaagcc acgatcttcg 240
 acgagt 246

<210> 15536
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-D11

<400> 15536

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<210> 15537
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-D2

<400> 15537

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aaagtgaagg aatctctatc acagcagtag tgaaaaagaa taatattaca gaaagctagt  180
cctagaacaa gcagaaataa taataaaaga aaaagaaact tacaacaata tgtgcaggct  240
tccttaaaca agttgagcaa cttcgatttc tgcaatagta acctcagttc aagtgccttc  300
gttttgtttc agtgccc                                           317
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-B10

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<210> 15539

<211> 94

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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cggccggggcg gcggcaaagc agcggtgccc gtgt 94

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-B4

<400> 15540

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ggtggcgccg gtggtgattg cgtctgcccg gctgggcatg ctggccggcg taggcatggc 120

caaccgggtcc ctcggaacg ggctcccggc ggctccagg tggaaacgcgc gcccgcgctg 180

cgccacgtgc ggcggctcag gccgcatgac gtgcatctgc aaccgctggt cagaccgaca 240

ctctggctgc cagtcatgcg actggctcgtt gaggataccc tgcgcacac cgcagcggctc 300

cggcacgtgc cgtccgctc 319

<210> 15541

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-B5

<400> 15541

gcgttggttcg tcgcaacacc ctatagtgcg tcgtactaat gaggacatca acatgcgcgc 60

atgggtgaaa cgccggcgcg catgctgatg aggacatcaa cactaacacg agtatatcta 120
caccagcagc accttctcca gaccaggcac catcttcccc agtccaggcg ccaccccttc 180
cacctggggc agtgactcgg gcccttgcaa gagaattgaa ctacatcatg ttgttaaaaa 240
acgaaggccc agaagattag aagatggccc aacaggaagg cccagatggg ggccttaggg 300
aagtcgtgaa cagtaaccgc ggtactatag cgccggccct actgttcacg tctcttctct 360
atttagtcag agtcatgttt catttagaac ttgagttttg ttttacat 408

<210> 15542

<211> 220

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-B6

<400> 15542

atagtgagtc gtattaatgc gtccgccac gcgtccgcc acgcgtccgc ggatgcatcg 60
gcatcgtctc atccccggca aacggcacga agccggattt cgggccggcc cctcaggggg 120
tcgagcatgc gcgcgcggtc ggctaaaagt tccggaatga gcttggcgag attggcgtgc 180
ccgtgggttc agtcaagatt tgtgaactcg ccgtcctcat 220

<210> 15543

<211> 190

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-B8

<400> 15543

atagtgagtc gtattatata gatctccacg gagcttgccg aggagctggg cgtttaacgg 60
ttgtccttcg atcgccccgg gtatgccgac agcgacctgc gcccgccag gaccgaggag 120
agcattgccc tcggacgtcg cggaggtcgt ggatagcctg caggtgggtc gcatgttcta 180
ccttgctggc 190

<210> 15544

<211> 381

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB83-009-Q1-E1-B9

<400> 15544

cacaacatcc tatagtgagt cgtattaaan ccggtcgtgt cggcgccgcg gccggcaggt 60
cgattccgtg ttggtcgcag actttaggc accttcggct cccctcctgc cggatgccaa 120
tggcctggtc aagcctgtta aaaggcatgt gtggtacgta atgagaaact atttatgatt 180
ggtggacatg agggagactt tatgactaaa ccaggatcac ctgtttttta atgttggtgg 240
aactacagaa aagcatgcc aaccaagaa gatgaatctt gttggtgaag tcttcccttt 300
tgatttgga ccattgacct ggtcagtcac tgggcgcacg cctttccgaa tcaagacac 360
cttatccagg tactgaacta c 381

<210> 15545
<211> 268
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-C10

<400> 15545

cacaagatcc tatagtgagt cgtattatcc ttggaccatg gtgtcaccca cgtcggctac 60
ggcacatata actgcaagga ctactggatc gtgaagaact cttggggcat cagctggggc 120
gagtcaggct acgtcaggat ggaacgcaac atcaaagcgt ccagcggcaa gtgtggtata 180
cccgttgatc cgtcgtaccc tccgaagaat ggcgccaacc ccccaaatac tggggccatc 240
ccggcatcgt ccataccacc tgcctacc 268

<210> 15546
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-D1

<400> 15546

gggtcgacgc aagtctctat actgagtcgt attaatggcc tgggcctgtc gcgcgaggag 60
gcctgccaga acctctcttt cgccaccacc ttcaacagct acggcggcct caaggtgctg 120

ttccccggggcc tgctggccaa cgtggccagc ggtggcgaga agctccacga gcggctggtg 180
gcccgatatcc gcggcgccgt ggccgacgcc ggcggcaacg tcaccctcgc ggcggtggag 240
acgatggagc tggccaagtc ggtggtgtgg gagtcgctgc gcctggaccc gcccgtaag 300
ttccagtacg ggcacgcaa gaaggacctg ctggtggaga gccacgacgc ggtgttccat 360
gttaggaaag gcgagatgct gttcggct 388

<210> 15547

<211> 190

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-D5

<400> 15547

tagtgagtcg tattaagcg tggccatgat gggggaggct ccaagacgta accttacgat 60
tgggaattgc agtgatacgt tgtgtgtaca tgtgtcgcgt cagtgaatct tttatgatcc 120
cgaggagggg tctcagcgtt tccatgtca cagggtccgc agccaggagg gggatatgcca 180
tctgcgtagc 190

<210> 15548

<211> 269

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-D8

<400> 15548

atagtgagtc gtatgtaagc agctggatat cccggagcgc ttcgtcgttt gtccatttta 60
ggtcggatga gctgtgtttc cttgactata ggtatcctgt ccttgttgaa tacttgtgga 120
cacacacgca agacgactgc gccatagttc agagagagcg caaataccat tggctcagtc 180
agcgatacgc atctcatagg aacagggaga gacgatcagc tgttgatcat gtcatgcaaa 240
ggctcgatct cggaactggg ttgaagtcc 269

<210> 15549

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-E4

<400> 15549

ttgttcgctg caactcccta tagtgagtcg tatctatcag agagctagaa ttggatgatg 60
atgcactcac aaaagctatt attggaacca taggcgatgt tgacgcctac cagctaccag 120
atgctaaagg ttacagcagc ctaatgagat atttgctggg catcacggat gaggaacgcc 180
aacaagacg tgaagagata ctagcaacaa gcccgaggga tttcaaggag ttcgctgatg 240
ctgttgaaac catcaaggac aatggggtcg tggttgccgt tgcctcgata gatgatgttg 300
aagctgcgaa taaggaaaac ccgctattcc ctgaagtaaa gaagtgtctg tgagggtccac 360
caccacttga taaggattct agtcgggagg tgttttttta ccagtgaatg 410

<210> 15550

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-E5

<400> 15550

atagtgagtc gtataaagcg ctgacaagca ccggataaat gggcctatag ctcggttgct 60
gaataacttgc accgctaacg gggcaggcaa tcgaacaacc agcatcaccg aactgatgg 120
acctagttag gaggacgtct ccactttgac atattctata cataaacagt tgtgaacaat 180
ccacgcatct gttagatcat atagccggac cacctgtttg attagaattt caccattgaa 240
gttcccaagc gcggcaaagg gcgcgggtcat tgtggtagac ggcattggcg tggcaatcat 300
caatagaaca atcatcatca acagaatcat cagcactaga acatccaccc g 351

<210> 15551

<211> 228

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-E6

<400> 15551

atagtgagtc gtataaacgc tggcgggtct ggcggagctc gctgggggtcc tggtcgttcc 60
cctgcacgga ccgctgcagg ggggggagat ctgggggtcga ccgtgagatt gggatgtcat 120

ccaaggcaca tggagaccac gcagagtcac gcgaggtgaa gattgagttg gggaaaccgc 180
agctagggct acactagacg gactactggg ggaggaatga gctagaag 228

<210> 15552

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-F1

<400> 15552

gtcgacgcaa gtctctatag tgagtcgtat taacgcgtgg gcgccgtcga ggggtaccgc 60

gtcgccggcg ggccgctcgg agaggtgggc gaccgctgt accctggcgg cagcttcgac 120

ccgctcgggc tcgccgacga cccggaggcg ttcgccgagc tcaaggtgaa ggagatcaag 180

aacggccgcc tcgccatgtt ctccatgttc ggcttcttcg tgcaggctat cgtcaccggc 240

aagggccccc tcgagaacct cgccgaccac atcgccgacg ccgtcaacaa caacgcctgg 300

gcttacgcca ccaacttcgt ccccggaat tgaccgaggg catgatgctt gc 352

<210> 15553

<211> 236

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-F5

<400> 15553

tagtgagtcg tatatacgca gtatcacgtg tggctcgcag acctcgggct gcagcgcgcg 60

cggtgtcagt gtctcagtc ccggcgcttc gcgcgtgagc gggtggggcg cgcggtcacg 120

gggcggccgt gggtcctgt cagtgcgcag cacggtgtgt gacttcgtgg gcggtgacct 180

gttgcgggcg ggctgggga gctggctgca ccacgtggag aaccacaggg cgctgg 236

<210> 15554

<211> 268

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-F6

<400> 15554

acacaacacc atatagttag tcgtagaaac tctttttttt tttttttttg aaaattagaa 60
 tttttttaat ttcaatatat cttatcataa tatgttcaag ccgtatcaac ccacgggtat 120
 ttacctagta aatagatacc ttagaattgg acaactcgca tgacaacatg aacatgtaaa 180
 agccaagttc tgtctccagt tatctgaaac agtgattcat caccaactag tggtagatca 240
 aagtgatagt agggcagcag cacgtgat 268

<210> 15555

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-F9

<400> 15555

tatagttagt catattaaac gaggatgtcg cgtggtacgc tggcaagcgc atggcgtaca 60
 tctacaacgc caagaccaag agcaatgaga cgcgtacag gtgcatctgg ggcaagggtca 120
 cccgtccgca cggaaactcg ggcgtcgtcc gtgccaagtt caagtccaac ctcccgcctg 180
 agtccatggg gcgcaaggtc agagtgttca tgtaccccag cagcatctaa ggttttgttg 240
 gaataaagat ggactacaaa tggccatgtg tttattttctc actttttctcc gaacttaaaa 300
 tgccttgtgt tggtaactta gattgttcaa gtgctgaacc tgt 343

<210> 15556

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-G2

<400> 15556

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 cataatacaa tcatcatcat ctagtggaca gatttcagtt tttggttcta ttccaacgct 120
 aacgttatac tgcattacac actgtttcac tcagcctgtc atattcacat ggtaaaaaca 180
 tgtcactgag cagaagaact tttggacgtg catcacgtgt atacactatc tcaacggttg 240
 cttcactatc tgttcataca acgtcaatcg aatcatcatt cacattactt aagcagcttg 300
 acagaactat tcggtcacct acatcatcac cactacggct gagactcaca tta 353

<210> 15557
 <211> 347
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-012-Q1-E1-C2

 <400> 15557

 atcacaacat cgtatagtga gtcgtattaa gccgtacctg cccatcgatg atctcgtcaa 60
 ctggtcaggc agttcgcgac aacatgagct ccacagattg ctgatgcggc agtcgttgcg 120
 ccagcaggtc gatgcctgac gtggtcgaac ttgcggtgga ggacgccaaag aatgtgattc 180
 tcaaagacaa cccggacgcc gctatctctg gtgctgcccg tcgggctcag ttgcgacagc 240
 ggattatcgc cctaaccgtg tccggatctt cgtcgacatc gtcgcccaga cgcgcacat 300
 acgctgataa tatataagct aacggctatt tcctttcctt gccccag 347

<210> 15558
 <211> 399
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-012-Q1-E1-E12

 <400> 15558

 actcgtgggtt cgacacaagc ccctacagtg agtcgtataa cacgtcgtcc aacgtccagg 60
 cttttctgtt ttctttctct cacgcaagtc gcaaagcgtc cccaccatg gcttccacga 120
 caacggcggc gtccaacaac ctggcgggcg tgtggctcgg cgagctctcg tcggcgctgc 180
 atgggacgtg gcaggcgggtg gccgtggccg ccacccacgg gtcggcgag gacgacgacc 240
 cgcggctgcc gtgccagcag cagcagaggc cgtggcgagg cgacgacagg agcagcagca 300
 acaccaaggc gttgcgagga gccgcggcgg ccgggacagt catgcgggag ggggacgtcg 360
 cgaggtgcgg cggcgccatg tccgacacca cgctcgacc 399

<210> 15559
 <211> 314
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-014-Q1-E1-H11

<400> 15559

agcaccattg ttagttcaat gggcagcaga gtctctgggc cacaggctat aagcttggat 60

cagggccggt aaccgatcga cacatgaaca cacattattg ggcgcaagac acttacggca 120

cacattatga catatcatca cagctgagat aaatccgtct ggtttatgag tccatcacgg 180

taagttacat agacagtcca cacgggaatc tgtggtattc cgcacaggca atttgcaagg 240

agacgacgtt cagaacacaa aggggttgcc gtagacctcg aacatcttcg agcaagacca 300

gttacgttcc ggca 314

<210> 15560

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-B10

<400> 15560

accacgcgtc cgcccacgcg tccgagtgga caaggtggag aaattcttga catcacacct 60

acagagatcc accaaagagt gcctctgtac attgggagcg tggaggaagt ggacaagggtg 120

gagaaattcc tggcttgaat gtccctgctt catgccagag ctctctcatc agatggactc 180

cccaagacat caagtttagg gaggggaatat gtactctctc tttcccaccc caaataagtc 240

ttcttctgtc catatttcga taaatcaaac aatctcaatt ttgatcta atatacacac 300

aacattaata ttt 313

<210> 15561

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-C11

<400> 15561

atgtatgcat atttcgcagt ccgtcctttg agagaagttc cagagataca gatgccacta 60

gacaccataa tcgagataca aatgggcgtc actggtgtgg aagagaagag gtacaaactc 120

atggactgaa tgaatacata aaagcagctg gttggctgtt tcatagagca agtacacata 180

acatagaage cttttccctt ctactctct ctccacacgg tggttcattgt aatttctttg 240

gaaaaaagac atgttgaaca atgtaaaca acaactaata acgaactgta cgaatggcat 300
gcttactgta acgaataacg aatacatact gggggtcacc aatgcgtagt cagaaacata 360
ttcogtcaaa gaacatagcg aaatgctgca gaagaaacgc ccg 403

<210> 15562

<211> 183

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-G9

<400> 15562

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tactagtagc agtgcgcata aaagctacaa tcccatgtcc ttttttttcc ccagtcatgt 120
aaaacttcca aactgctcca tgggtcaaaa ctctgttctt caatacatca tcaattatcg 180
att 183

<210> 15563

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-F4

<400> 15563

gctttgatca tgggggagtt aagatcaaga ggaatcttaa atagtcacac tttggcgtac 60
caggtaaatg ctattaaaat ttggtaggta attgtttcac taacaacgga gttgtgcctt 120
tatgttttaa tgatcacctt gtaagaacac taggaatgga aactgccaaag ttatataggc 180
ttcaggagtt accagttcct taattttcca ggtcaccatt aactagtgtt aacattttatt 240
gtacacgcag agtcgggtgg ggccagttca atggctgaag ccatatactg atgaagtttt 300
agtagaactt ggtcaaaaagg gtgttaagag cctcctggct gttccagtaa gctttg 356

<210> 15564

<211> 403

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-005-Q1-E1-B11

<400> 15564

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atcacggcg aactcgtccg tgggatactg gacgtcggcg cgaaagcagg gcatgagatg 120
tgcggaggac atatcagagg aatgtttggc ttctttctca ccggcggggc cgtccacaac 180
ttcggggacg ccaagaagag cgacaccgag aagttcggga ggttctaccg tggcatgctg 240
gaggagggcg tgtacttcgc tccctcgcag ttcgaggcgg ggttcaccag cttggcgcac 300
acctcccagg acatcgagaa gaccgtcgag gccgctgaga aggttctgaa gcggatatan 360
ggggtccgct tcaagcaagc atgcagagag catttcctcg tat 403

<210> 15565

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-E4

<400> 15565

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caaaggggtgt cctcctttat ggacctccag gcacaggaaa gacattgctg gcacgtgcgg 120
ttgctcatca cactgactgc accttcatca ggggtgtctg ttctgaattg ggtcacaagt 180
atattgggtga acgttcccgg atgggtcggg aactctttgt tatggccagc gaacatgccc 240
catccattat atttatggat gaaattgact ctatcggatc tgctagaatg gagtctggaa 300
ctggcaacgg tgatagttaa atgcagcgta ccatgcttga acttctaaac cagcttgatg 360
gttttgaagc ttcaaacaaa attaacgttt tgatggcaac aaacagaata tacattttg 419

<210> 15566

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-E7

<400> 15566

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gcctacctat ccgatgattg ttccagctta tttctcaccg ttcttgcaat tctcagttcc 120

tttctggcca aatcaggaag atggaggtga tctgcctcaa gaaacgcacg agattgtcaa 180
 gcctgttgca gttcattcca agaatccaat taatgttgat gaacttgtga gcatgtcaaa 240
 gctaagcata ggggagcctg gtcaggaaac ggtgtctact tctctgtcgt taaatctgct 300
 ggtgggtcaa aataggcagt cggccttcca tgcaaactct caaacgaggg ctcaagcttg 360
 atcccgttc cgcacagaaa ctgcattaag aaggattccc tctctttttt tttt 414

<210> 15567

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-D9

<400> 15567

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 cgttgatgca tgetccctcg gcgggtggcct tgagctgagg cggcggagcg atgccggact 120
 ccgacaacga ctccggcggg ccgagcaacg ccgggggcga gctgtcgtcg ccgcgggagc 180
 aggaccgggtt cctgcccctc gccaacgtga gccggatcat gaagaaggcg ctcccggcca 240
 acgccaagat cagcaaggac gccaaaggaga cggcgcagga gtgcgtgtcc gagttcatct 300
 ccttcatcac cggcgaggcc tccgacaagt gccagcgcga gaagcgcaag accatcaacg 360
 gcgacgacct gctgtggggc atgaccacgc tcggcttcga ggactacgtc cagccgct 418

<210> 15568

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-E1

<400> 15568

cagacgcgtg ggctgaattc ttcaggctgc ttagatgatt cagggtacgt cccgccatgt 60
 tcggataatt ctgaccaagt gaaccgacca ccagcaacct ttgtgaagggt ttacaaatct 120
 ggaacctacg gaaggctcgt tgatatcacc aggttttagta gctatcacga gctccgtagg 180
 gaactagggc gctatatttg ccttgagggc cagttggaag accctctgag atcaggctgg 240
 cagcttgat tcgtcgaccg cgaggaggac gtccttctcg tgggcgacga cccttggcag 300

gaattcgga gcacgggtgtc ctgcataaag atactctcgc cgcaggaggt gcagcagatg 360
 ggcaagcagg gcctggagct cctgagctcg gccccgcgg cgcgga 406

<210> 15569

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-A11

<400> 15569

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 gcctaactga atatgaggat ggagaccaga tacgaattct tccttgcaag cacgagttcc 120
 acctgcaatg tgttgacaaa tggctgaaag aaatacacag ggtgtgccct ctgtgccgcg 180
 gagacgtctg cgaagtcgcc tcgtgaagac cttggcgctg ccatcccttt cctcacggca 240
 ccggcagata gcgcaccccc cgctgctcc gttgttgaag ctggtttggt caggcaacgg 300
 cgatcacgtc ccgtcaatct gggcgctcct gccgaagagc gtggccagat cctgcgacca 360
 atgcgtcgct gttcctgcca tcaacttttt aagataccga gactgtatat agctcttgta 420
 gcctctcc 428

<210> 15570

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-F2

<400> 15570

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 cagcccagagg caagatgggt ctccagaacg acattgatct gctcaaccg ccggcagaac 120
 tcgagaagct caagcacaag aaaaagagac tcgtccagtc gcccaactcc ttcttcatgg 180
 atgttaagtg ccaggggtgc ttcagcataa ccaactgttt cagccactcc cagactgttg 240
 ttgtgtgccc tggctgcaa actgtcctct gccaacctac aggaggaaag gcaaggctca 300
 ctgagggctg ctctttccgc aggaaggag actagagcgg atgtggtctt caagttttgc 360
 tctatgccag atactagcgt catgaactgc ctttagctaa gatcttc 407

<210> 15571
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-016-Q1-E1-H7

 <400> 15571

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 ataatgatcc tgttgatgtt gttgagatag gtgaaagacg tgccaatgtc ggggacgttc 120
 ttaaggttaa gccattggca gcttttagcaa tgattgatga gggagagctt gactggaaaa 180
 ttgtggccat ttctttggat gacccgaaag catctcttgt gaacgacgtg gatgatgttg 240
 agaagcattt tccggggaca ctgactgcca tcagagactg gttcagagac tacaagatac 300
 ctgatggaaa gcctgccaac aaatttggtc tcggcaacaa gcccgcaagc aaggaatacg 360
 ccctgaaggt cattcaagag accaacgaat catgggagaa attggtaaag agaaatattc 420
 ccgctgga 428

<210> 15572
 <211> 417
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB83-006-Q1-E1-C7

 <400> 15572

 cccacgcgtc cgcccacgcg tccggcttgg tatatcgta cctgaattga cagagatgca 60
 agcccggggc atttttgaag ctgctatagc aatgaccaac caggggtgtt aagtgttccc 120
 agagataatg gttcctcttg ttggaacacc acaggaaactg gggcatcaag tgactcttat 180
 ccgccaagtt gctgagaaa gtttcgcaa tgtgggcaag actatcgggt acaaagttgg 240
 aacaatgatt gagatcccca gggcagctct ggtggctgat gagatagcgg agcaggctga 300
 attcttctcc ttcggaacga acgacctgac gcagatgacc tttgggtaca gcagggatga 360
 tgtggggaag ttcattcneg tctatcttgc tcagggcata ctccaaacat gaccctt 417

<210> 15573

<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-G2

<400> 15573

agttcctctt gttggaacac cacaggaact ggggcatcaa gtgactctta tccgccaagt 60
tgctgagaaa gtgttcgcca atgtgggcaa gactatcggg tacaaagttg gaacaatgat 120
tgagatcccc agggcagctc tgggtggctga tgagatagcg gagcaggctg aattcttctc 180
cttcggaacg aacgacctga cgcagatgac ctttgggtac agcagggatg atgtgggaaa 240
gttcattccc gtctatcttg ctcagggcat tctccaacat gaccccttcg aggtcctgga 300
ccagagggga gtgggcgagc tgggtgaagct tgctacagag aggggcccga aagctaggcc 360
taacttgaag gtgggcattt gtggagaaca cgtggagag ccttcttc 408

<210> 15574
<211> 247
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-E12

<400> 15574

cacaactacc ggtagtgtg cggggatcaa ttttgcagta ataaaaaatc tactatcaac 60
gcggatggta ctctgttgtt tatagtcctt gctgctaacc acccttggtg ctgggtgctgc 120
tgagagggca ttgtacctgt ccatgcatat atgatataata tatgttgtaa cgttgtgaaa 180
gcacacaatc ttgggtacca aaaaaaaatc atttaagatc aatattgaca aaataaccgt 240
gcgagag 247

<210> 15575
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-A7

<400> 15575

acggttctgg gtttggacag gtccttgaa cgtggcactt caggtgcacg atactgccgc 60

aggaggacaa gatacctgcg atagtatcca ggctcaagga gttccacgag aagttcatgg 120
atgaattccg tgattgagct gagtatccat cgccctggcg tgatttttat ctgttcaaaa 180
taataatgct gccaatgggt tgcccccgct ccctcgctgt cccatggatg ctacagccaa 240
acaccatccc aaattgtggt acaggcagat ccctatcgaa aaacctacag aatctcgggc 300
actgcaatgc catgggttctg tttgccttgt gagaagtgta tcaggctagg ctctgagccc 360
tgatgtgtac aaacataccc gaactttgaa ggcaatttga gttgtcccg ggcatg 416

<210> 15576

<211> 134

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-A6

<400> 15576

atcactcttg ttgtcaagtc caagtggaaa atcttggcat attatacata ttgtaataat 60
aagcatogta caatctgcat gctgttttgt aataattaat taatatccca gccattgga 120
tggacttggt tacc 134

<210> 15577

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-G12

<400> 15577

gcagagtgca ccgcaataat cagcttcgg atggtggcgt tttgtcagtt ttggatggaa 60
atgccgaact ggcagcgtct gttttcccta tgcatatgta atttctgce tctttatatt 120
cactcttggt gtcaagtcca agtggaaaat cttggcatat tatacatatt gtaataataa 180
gcacgtgaca atctgcatgc tgttttgtaa taattaatta atatccagc cc 232

<210> 15578

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-H8

<400> 15578

gtccgtggtg gacctggtga tcaacaccgt gaagactggc atcaaggccg acgacgtgaa 60
cgcggcgttc cgcaaggccg ccgccggccc gctgcagggc atcctggatg tctgcgacgt 120
gccgctcgtg tccgtcgact tcagggtgctc cgacgtgtcc tgcaccatcg acgcgtcgct 180
cagcatggtc atgggcgacg acatgggtcaa ggtcgctgcc tggtagaca acgagtggg 240
gtacagccaa cgcgtgggtg atctggcgca cctggtggcg gccagtggc cggcgccgc 300
ggcgccggc agcgcgacc ctctggagga cttctgcaag gacaaccccg agaccgacga 360
gtgcaagggtg tacgaagcat gatgccaggg ttctttccac gacgaaacgt acagcacggg 420
cg 422

<210> 15579

<211> 172

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-E4

<400> 15579

ttacccccga aatgactcac ttctggtgaa attcaccggt ttggcgagg tegtccgaat 60
ataccggcca aatgtttcca ttggatttca attattagtc aactctagag ttgaaacaaa 120
catacaagtt cttcattcaa taatcaatat agaagtgcatt atctgtttcc tc 172

<210> 15580

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-A11

<400> 15580

cccacgcgtc cggttgaaac aaacagatat gcacttctat attgattatt gaatgaagaa 60
cttgatggtt tgtttcaacc ggacgcgtgg gttctggttt tgccaatagc tccaatgggc 120
ggcaaatagg ttcttacttc aatagtagtt caaacagatt aggcagtcca attggttatg 180
ttggccttaa tgatgaaatt agttggggaa accttacttc tgttcatggg atgggcaaca 240
tttcaagcct tggaccggga aaccttggtc gtggaaccgg agataacaac tttggattgc 300

cttctggaac ctacgtgagg agcaactcaa ctggtacaat tggcgagcca ttttctgcat 360
cagccaatcc atatgaatcg aacaatctaa gtgca 395

<210> 15581
<211> 178
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-C2

<400> 15581

atgggatgtg tcacgtgcct ataaataggt gaacagtacc cccgtactgc gggggctgac 60
ttggcatttg ctttagcgct acgcttgtag tttcgccctc tttcaagccg aaggtacatt 120
tgtaatttga tattatttct aattttctat aataataata cagaaacgag ttgataat 178

<210> 15582
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-F2

<400> 15582

ggaaaatctc tcgtggaaga ggataaactt gagctcgcaa cttctcttat tgagaaggcg 60
aaggcaaagg gggtttctct tttgcttccc actgatattg tagtagcgga caagtttgca 120
gctgatgctg agagcaagat tgtccctgcc actgctatcc ctgatgactg gatgggtctt 180
gatgttggcc ctgatgccac caaaacattc aacgaagcat tggacaccac caagactgtt 240
atttggaacg gcccacatggg agtgtttgag ttcgagaagt ttgcagctgg cactgaggcg 300
attgccaaga agctagctga gcttacaacc acgaagggtg tcaactaccat catcggcggc 360
ggcgactctg ttgctgctgt cgagaaggct gggctggccg acaagatgag ccacatttgc 420
accg 424

<210> 15583
<211> 273
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-B2

<400> 15583

gtagagaccg tggctagatc gacccatggc catgcctctg cctgttgatc ggatcacctt 60
cttgcaattgg ttccctctctc tctctccctc cttttttttc ccttttatctc atcattttctt 120
ttctcctgca tgcaatgggtt ccttttgctt ccaacaattc tcttgctgat gtatccagca 180
tggcatcatc catctacaat tacgtacgta gtgcaacgac tgtcgattcg ttgggtgagg 240
aacatatatg tgaatgcaag ctccggctac cat 273

<210> 15584

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-B3

<400> 15584

agcaagctcg atctactact actactagct ggtacacata ctagccagcc tgccagccag 60
cttgccatgg cgcccaccgt gatgatggc tcgtcggcaa ccgccgtcgc cccgttccag 120
gggtctcaagt ccgccgccag cctccccgtc gcccgccgca gcaccaggag cctcggcaac 180
gtcagcaacg gcggaaggat ccggtgcatg cagggtgtggc cggcctacgg caacaagaag 240
ttcgagacgc tgctgtacct gccgccgtg tcgacggacg acctgctgaa gcagggtggac 300
tacctgctgc gcaacggctg gataccctgc ctcgagttca gcaagctcgg gttcgtgtac 360
cgcgagaact ccacctcccc gtgctactac gacggccgc 399

<210> 15585

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-B8

<400> 15585

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atggcgccca ccgtgatgat ggcctcgtcg gccaccgccg tcgtccggtt ccaggggctc 120
aagtccaccg ccagcctccc catcgccgc cgctcctcca gaagcctcgg caacgtcagc 180
aacggcggaa ggatccggtg catgcaggtg tggccggcct acggcaacaa gaagtctgag 240

acgctgtcgt acctgccgcc gctgtcgacg gacgacctgc tgaagcaggt ggactacctg 300
 ctgcgcaacg gctggatacc ctgcctcgag ttcagcaagg tcggcttcgt gtaccgagag 360
 aactccacct ccccggtgcta ctacgacggc cgctactgga ccatgtggaa gctgcccatt 420
 ttcggctgca acga 434

<210> 15586

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-C9

<400> 15586

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 atgatggcct cgtcggccac cgccgtcgct ccgttcagg ggctcaagtc caccgccagc 120
 ctccccatcg cccgccgctc ctccagaagc ctcggaacg tcagcaacgg cggaaggatc 180
 cgggtgcatgc aggtgtggcc ggcctacggc aacaagaagt tcgagacgct gtcgtacctg 240
 ccgccgctgt cgacggacga cctgctgaag cagggtgact acctgctgag caacggctgg 300
 atacccctgcc tcgagttcag caaggctggc ttcgtgtacc gcgagaactc cacctccccg 360
 tgctactacg acggccgcta ctggaccatg tggaagctgc ccatgttcgg ctgc 414

<210> 15587

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-A1

<400> 15587

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 cggcacaact gacgatcttc tacgccggtt ccgtcaatgt gttcaagacc ttctcagctg 120
 agaaggctca ggagctcatg ttcttagcca gcagaggatc tattccaagc tcattctccg 180
 tggcctgtaa ggcatacgt cctcctaatt tccctccagc catggtcaca gcgcctgagg 240
 ttctttctgcc tgcgaagcag atgctgtttc aaaaaccaca gcattctctg ccgcctccat 300
 ccagtgtccc tggcatcttg cagtctgcag ctctccccag gaggcctca tctagctcta 360

accttgactc cccagctcca aaatcttcgg ttccgttagc tgttcctcct gtaagcca 418

<210> 15588

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-A10

<400> 15588

aaccaaaaaa tggaccaaata ggctggacgg ttaaaaaatg taagacagaa cctctacaac 60

agtttgtctg ccaaggacaa aaccggcaag gactggtctt tcattctgag gcagattggc 120

atgttctcct acaccggctt gaacaaagcg cagagtgaac acatgacgga taaatggcat 180

atttacatga ccaaggatgg gcggatctcg ttagctgggc tgtccctggc taagtgtgat 240

tatcttgccg acgccatcat cgattccttc cataatgtga actaagctga ggtacgatag 300

ttgaggggtca agctattgat gtttagttcc gtggacgcta ggctgggatt tttgggtcct 360

tccagctata cagctcttcc cgttgtgctc aatctggtgt aacttggata aataaaattt 420

tgt 423

<210> 15589

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-A11

<400> 15589

gagagctgcg tcaagctgcg ctagectcct agcacaaaag aggtgctact ccgtggccgc 60

ggtcgtggtg aagggatgcg ggcggaaggc cgtggagaag gtggccaagc gcatcatggg 120

caaggaggtg aacaccgchg ctgcctccgg ggagaagacg ccgtgggtgc cggacccggg 180

caccggctac taccgcccgg cgggtggcgc caaggaggtg gacgcggcgg agcttcgcgc 240

caggctgctc accaagagga tcgccaacta aatcaatcta gcagcagagc agtgccggtg 300

agattattta gcgccagttg atctcttggg cctagagcat gacggtgctg taacttttga 360

ggcataatat atatagatag atagatggga agagctcgaa cgtatctccg ttctagaaag 420

aat 423

<210> 15590
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-A12

<400> 15590

accacccgtc cgacaatttc aaaattggaa atggcttgat aacggccaac ggcatcaaag 60
gttatccact aatcagggtta cagctaggaa agcatgtttt tctaagtga ggggattttt 120
atctggctag tcgatacctaa tttttgtgtg cagcatccca attttgactg attcaccat 180
cattttgcog caatcggctt aaacagcttg gttccattta tgcattcaga ttcacttggt 240
aaaggtgaaa aatcccaatt tatgat 266

<210> 15591
<211> 167
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-A2

<400> 15591

gggtccacac acgcctccaa aataattcac tggagatatt tgccatggaa tgaagtctct 60
aaatgactac cactctgaat tgtttggttg tacacctgtg gtcggttccc ttacctttg 120
ggcacctttg actaatcagt atatgtggtg gaacttgcag ttactct 167

<210> 15592
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-A3

<400> 15592

agcttcgggc aacgcttcgg cgtccctctt catgtcggcc tccgcttcgg ccgcgggcgc 60
cctcaaccog cattgcttcg gccgcggcct cccggttgac ggcttcgtcc cctgctcgct 120
cttcagcttc tatggccgaa cgggacaccc ttcttgcaac cccgcaggg tgttcaacaa 180
gatggagggt ccccgacc tggcctctg caacgcactg ctgcagcgc tgtgccacgc 240

cggggacctg gacggtgccg gggacttctt tgagcggatg gcggtgaggg aaccogtgtc 300
 gtggacgacg ctcggtgtctg ggctgtcgcg gggcggacgc caccggtgcg ctctcgaggt 360
 gttcaaggga tttttgctgg gtaa 384

<210> 15593
 <211> 437
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-001-Q1-E1-A4
 <400> 15593

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 tccgctcaag tcgaggagtg cagtgcgctg tccaagcgc gccccgccag gagccagcgg 120
 tgccacctcc acctccaaga cacaagatcc agttgaaaac cagaagctat gtgcctatct 180
 gggttgagaag gcagtcaaca gacttccgcc aggagcagag aatatacttg ggatctttga 240
 tctgcgaggc tttcgggtag aaaatgggta tctccaattc ctaaagtttt tggttgttaa 300
 acctctgttg aaatcatatg cctccctgat tttgtgatac cgagactgtg aggaaggaat 360
 acttcaaaga agaaactgtg catcctgatt tccgcgatta ggtgacatga ttatttcttc 420
 agtaattgca aaaatgt 437

<210> 15594
 <211> 235
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-001-Q1-E1-A5
 <400> 15594

tgtgggttcc tatggcggaa caagggatgc ggtgaggcca aggacggcac aactgacgat 60
 cttctacgcc ggttccgtca atgtgttcaa caacgtctca gctgagaagg ctccaggagct 120
 catgtttctta gccagcagag gatctattcc aagctcatct cccgtggcct gtaaggcata 180
 cgctcctcct actcgccctc cagccatggt cacagcgaat gaagttcttc agcct 235

<210> 15595
 <211> 429
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-A6

<400> 15595

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tggcctcacc acctccccgt ggcagccgt cgtcgtcctc tctccctta tgcgacgggt 120
tccggttcgg gccgctcaac tcttctagtc ttcttccttc ctttccttcc tttctcccc 180
gtcccgcctc ggctcctgc gtctgctgc cctgtgattg aagcaggcaa cggccggctg 240
ttgggacggg agataaatag taaatcgggt gatactactg ctgctgctgc tattaaccgc 300
tcgggctggc cggggccccc ctctcctcc tgttgcctcg attccatcac acatcagctt 360
gggtgcattcg tcttctgct tctccttgc ttctctctc ttcagtccag ttctcccttg 420
gagcgagga 429

<210> 15596

<211> 200

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-A7

<400> 15596

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tgtttcaatc atctcaacat ccgatcatga acctcttgca ttattaactg gctcgatcgt 120
cttctcagtt taagacattg gaggctgctt tgtttgtttc agaggctcctt ctttaagatga 180
tgctatatatt tgatcatggtt 200

<210> 15597

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-A8

<400> 15597

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tctcctttgg tattctaccg tatgttttta atttatagat gataaaatac catgaagaca 120

atgttatacc aatacgtcca ttttattctg taatggatta acagtcacatca gatcaggcgc 180
aaacgtgata ctagtttgtgt tctttgctac atatcgtcac cttgcttttg tctgcagagg 240
ttgggtccatg agttgctgga taaacagcag aatccgaccg taaaatcaag gctggcaact 300
gcgttccata accttacaag ttcaaacaat ctctcaagct cactcgaccg gccaaacagg 360
cagagattca ggaaaaacct ccttagcttc atggcggtatg tatcgggctt catgcagata 420
aagtagatgc gatgg 435

<210> 15598

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-A9

<400> 15598

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gtctcgccgc cagcctcgcc gatttcctcg cccgccactc cgccgggggt ggtggagtgg 120
tgtgcgtcac ctccgggggc actacggtgc ccctggagca gcgttgcggtg cgctacatcg 180
acaatttttag ctccggccag cgcggtgccg cctccaccga gtattttctt aaggccggct 240
acgctgtcat cttcatccat cgccgtggga gcaagcagcc ttactgtagg tttcttccag 300
aggattcctt tctcgatctt tttgagctcg gggaagactc agagatccaa gttccacagt 360
ctcattcacc ggtgggtcaag gcagcaatta gcaatttacg gaaggcaatc gatgaatgct 420
tcctctca 428

<210> 15599

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-B1

<400> 15599

gggtcgacgc aagcctctac actgagtcct gtcacgtctt caaagcctcc gccacttgac 60
tcccatcccc tctcgctggg tccttctcct gctcccgtc ccgctgctcc tcattctctc 120
gcgcgcgggc cccagcctt tgcccgccgc tacctctctc taattggggg gagggcatcc 180

gggccgatgg cgttcaacta ccacgaccac gcgctggcga tggaccccg 230

<210> 15600

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-B10

<400> 15600

ccagggtccac cagcggttcg gaagccgaac aacaagtttc tcccaattcc cttattggct 60
gaccacattt ttccttgtag aattttttta aattgatagc actgaagaac tagggctagt 120
gtaagaatga aaccagatt ataatttctt ggggcttttg atgtaaata aggccatttg 180
tctcattaag aattattaag agatggctat gagcaaaca cttggattga gttttgcaac 240
caaatttggg caaacataag tgcaagcctt caagaaagga atatcaatga atgttttggg 300
gaaacaaatc cttggcaata atgtaggtag aaagaacaat tgggtgtattt gcatccctac 360
accctactgt ttgtgtacat actgaattgg ttgaacatga atttccattc tgttatatct 420
tatattg 427

<210> 15601

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-B11

<400> 15601

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gagattctca cttcgtcgc gcgcttcgcg cccacggcgg ccatcgtgcc caccgccgac 120
ctcatcgaga agtcgtcaa ggtgcccgc aagcgcacgc ttgcagcgcg caaccctgtg 180
cgtacaacg gccgtcccag gctcggcacc gtcgtcgagc tgttgcggtg caccgacgag 240
ctggccaagc gctcggcga agtcagcatc ccgttccttg tcgtgcacgg cagcaccgac 300
gaggttaccg acccggaagt cagccgcgcc ctgtacgcc ccgccgccag caaggataag 360
actatcaaga tatacgacgg gatgctccac tccttgctat ttggggaacc ggacgagaac 420
atcgagcgtg tccgtgg 437

<210> 15602
 <211> 295
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-001-Q1-E1-B12

 <400> 15602

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 tttttttttt tttttttttt ttttttttta taataagaag tccggtttta gtatatatat 120
 agtatcaaat catatcatcg tggaccaatt aatatatggt tacagcagat gcaatcggat 180
 taaccaacat gcaggtagac acacgtacgt acatgagcac aaagactgac gccaaacatg 240
 cagagagaga tagcaaaactg aagaactctg tttctctctc tctcacacac accac 295

<210> 15603
 <211> 417
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-001-Q1-E1-B3

 <400> 15603

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 agaatttcat tatatccctt tcttctacct tcaattttat atcatatttc ataaggataa 180
 acaataggga taggctctgg aacagaagta ataaagtaca taaaaatcgg caatctaaat 240
 attoctacct aatatatcag gacggtctta ttaataattc taatgagtta tcttgaatt 300
 ttgaatcgaa tcaaaaaatc tatattatgc tcaactcaagg aaagtagatg tagatagggg 360
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<210> 15604
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 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-001-Q1-E1-B4

 <400> 15604

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 agccctatgt tgaagattat gaggggcatg tggggaactt tgcagtctaa tagtgttgct 180
 gcaaaaaggg tcctagaggg agaattaagg acagagtcaa tcaagaaggc gatgaatctg 240
 gttaaggaat gtggtgcacc tgaaggaagt gttgagcatt acatggctac aaaattgttc 300
 gtgaaagctg aaaaccgaga tatgttcttt acttttgaat caaatgaagg aagattgtct 360
 tggttaaaga gaaattgtca ggactatggg ttgtcttgag ttggtagtag tcatgagtgt 420
 gtctgcctat ctactgtc 438

<210> 15605
 <211> 398
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB83-001-Q1-E1-B5

 <400> 15605

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 caccacgcgc gccttgtccc cgcgcgcccgc cgtctcgccg cacaggcctc ccctctcttc 120
 cctggcggac ccctcgctct ccccctgcc a tcgcatcgct agtttcaaaa gcaggaggct 180
 gccacttcgc tctctccaca tcgccgctgc cgctgccgcc ggggcagagg aagaagaggc 240
 gcaactaggt ggaagtgtga acgcggtcga cgaggaggaa gcggaggtaa tggccttttcg 300
 taccoaatag ctaggattcg agcaacttac ccggtcagt cgctgtcntg tctgtataac 360
 cggaattac gcagttcaga tttaaaatgg ttatgttt 398

<210> 15606
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-001-Q1-E1-B6

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ctatcâtccct ctgcaaâtct cggtagaggtc atcaaggccg tcggactcgg cggcgatctt 180
ggacgccgcg gccgacagga agcgggaagcc ggcgtcgtg gcgctcttcc tgacggagggc 240
aagctgctgg gacttcttgc agtaggcgat gaacccttgg atggggttct ccacctcgga 300
gctggcgtg ctgctcctcc tgagcgccgg ccccgcgag tcggactcgc tcgaggacgg 360
cggcgccggg agcggcgccg gcagcgagg gactggggac gtcttggtcg acgaggagta 420
ccggacgatg ac 432

<210> 15607

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-B7

<400> 15607

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ggtcacatctgt tctttttaag catttaaata tgatgattga tcacgttggt ttggaacaaa 120
agggttaaat caacaaaaga aattaaggca tttgtttttt tgcttaagat ctgaagaaag 180
atgtagaaca gaacaccatc agttgtaact tatggtgttc ctgaaaactt gattgctgca 240
aatgaaaggt ccagggacaa ctctttaata ccatcggtat tcattttgca tatgattcat 300
aacacactgc tagttatttc ttttgactaa ggacatgttt ggataccaag ggctaattgt 360
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<210> 15608

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-B8

<400> 15608

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ctgcccctac tgcccagcg cgaagccgcc gccgcctccg ccgcccgtcg cgtcgtccac 180
gcggtgccct ccccgcct actcgccgc gccgtccacg ccgacgggta agtgccccgt 240

gaacacgctc aagctgctcg cgtgcgtgga cgcgctcaac ggcctcgtgc acgccgtcat 300
 cgggaccaag gccagegaca cctgctgccc gctgctctcc ggcgtggcgg acctcgacgc 360
 cgcgctctgc ctctgcacca ccatcaaggc caaggcgtc agcgtcagcc tcgtgctccc 420
 cgtcgccatc t 431

<210> 15609

<211> 144

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-B9

<400> 15609

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 caattagttg ggaacaaatt gtgagtacta ggtaccattt cctgattttt gagtcacaac 120
 aggacctctg agttctcccg gatg 144

<210> 15610

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-C1

<400> 15610

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 ccgggagcag ttggaggacg tcgcgggcaa catcgacagg cggaacgcgg accctgcgct 120
 gaagaaccgg acggggcacg tggagggtgc ctatacgctg ctcaagccga tcgaccatga 180
 cggagagggg cgccctctga gttcctcaac gatgtacatc taaaaatgt actacaggct 240
 gaacactgca taattcatcc atagcaccat cacatggtag tcagttacgt tactetaact 300
 cttctacttc acgtttaaca aagggttttt ttatgtatct tcttgtaa 348

<210> 15611

<211> 431

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-001-Q1-E1-C2

<400> 15611

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aaaaatacaa aaggcaagcg agcgagctcc aagttcggct gctccaattt cactcggcat 120
ggctcctcag gcgtgggtcg tggcggagaa cggcgaggac ctccaacaac ccaggggaatt 180
cctgcgcgtc tctaagcttg aagatgttgg cgtgttgat tggcatttgg accctaagaa 240
gtctgaaagc gaggaggaac tagcaaaaat ccgcagagac agaggctaca gttacatgga 300
tcttattgag atatgtcccg acaaactgga aaactatgag gagaaggatga agaacttctt 360
ctgtgagcac atgcacgctg acgaagagat ccgtatttgc ttgganggca gcgggtactt 420
tgacgtccgc g 431

<210> 15612

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-C3

<400> 15612

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caagggtgaac tacgccggcg tgtccaccaa caactacgcc ttggacgagg tctcagaggt 180
gaaatgagtg gggccggccg gctcaagggc tccgcgctag ctaacgtgtg attgatttgt 240
agtagttgtg aaatgatgct gtgaagctgc atgctgtgcc gggtagcgtc acaacatcga 300
tccgatgtgt aatagcataa tccacataat catatcatgt aattgcctgc tctattcacc 360
gtgtacgcaa taatctctct tgctctctaa aaa 393

<210> 15613

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-C4

<400> 15613

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 ccgtgccgcc gcctccgact cctgctccgt ccgagcctac caccacaggg caagggcttc 120
 atccagccgc gtgcgagcct gaccgcccag ttagacgatg agccgcagcc tcggtatccc 180
 ggtgaagctg ctgcatgagg cggcggggcca cgtcgtcacg gtcgagctca agaccggcga 240
 ggtctaccgc ggctccatgg tcgagtgcga ggacaactgg aactgccagc tcgaaaacat 300
 caccttcacg gcaaaggacg gcaaggtgtc gcagctggag cacgtcttca tcagggggag 360
 cagggtcagg ttcatgatta taccgacat gctcaagaac gccccaatgt tcaag 415

<210> 15614

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-C5

<400> 15614

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 caaccaccca aggagcaaga gaagaagatc gacgacgacg acgacggctg ccctctgcgt 180
 tcctcaaggc tgtacaacta ctaatgctac tacaggctga aactggata attcagccac 240
 aacaccacca catgtcatte agttacttta ctctaagtct tctacttcac gtttagcaaa 300
 ggcttttttt atgtatcttc ttgttaattg aattgttaac tttagttttc ttttagacat 360
 agatggatta aggatcttta acatatgttt ttt 393

<210> 15615

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-C6

<400> 15615

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 gccggggagt ggtcaaacgg ccagagccat gggatatggg tgcacacctg tgaggacggg 180

agccggtata taggggagtt taagaggggc gtcaagcatg gtctcggcca ctaccatttc 240
 aggaatggtg acacctacgc tggagagtag tttgctgata cgatgcacgg ctttggcatc 300
 tacagctttg ccaatggcca tagatatgag ggagcatggc atgagggtag aacgcagggt 360
 ttaggcatgt atagtttcag gaatggagag acacaagctg ggcactggca aaatggagtt 420
 cttgatactt ta 432

<210> 15616

<211> 431

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-001-Q1-E1-C7

<400> 15616

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 cgtgttgaag aagttgaaaa tgttgatca aaagtacaag attttatcag ggagaagaaa 180
 ggaaggatat ggaggcttaa caattggggg ctgcgcaggc ttgcttacia aataaagaaa 240
 gcaacacatg ccaattacat tttaatgaac ttgagatag agtcaagata catcaatgac 300
 ttcaagaccc tgctagacaa ggatgagagg atcatcagac atctgggttat ganacgggat 360
 gaggcaatta ctgaagaatg ccctcccnca caagttattc acactctgcg agctcaacaa 420
 tattttgatg a 431

<210> 15617

<211> 126

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-C9

<400> 15617

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 tctcgatcaa ctctaagatg attggcttat aaacaatttc cccacctgga gtactatctt 120
 gacctt 126

<210> 15618
 <211> 384
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB83-001-Q1-E1-D11

<400> 15618

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 gtggccaccg gcccgcgcg cgccggcgcg gggcccatct gcgcgtccat gtccatgtcc 180
 tcctccaacc cgcctacga cctgacgtcc ttccggttca gcccacaa ggagtcctac 240
 gtgtcncgag agatgacncg tcgctacatg acggacatga tcacctacgc cgacaccgac 300
 gtcgtcatcg tggcgcgccg ctccgcgggg ctgtcctgcy cgtacgagct ctccaaagga 360
 ccccgccgtg agcatcgcca tcgt 384

<210> 15619
 <211> 381
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB83-001-Q1-E1-D12

<400> 15619

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 aaggacangg gactcctgga cagcctactc ggcaggaaca agcacgacga ccaggagaag 180
 aagaaccagc aggcggagga ggagctggcg accggcatgg agaaggtcac ggtggccgag 240
 cccgaccaca aggaggaggg acacgaggcc gccgagaaga aggacagcct tctcgccaag 300
 ctgcaccgca ccagctccag ttccagctcg tcgagcgacg acgaggaaga ggaggtgatc 360
 gatgagaacg gcgagattgt c 381

<210> 15620
 <211> 461
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-D2

<400> 15620

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cgcgcgccga gatcgcgggc gcgcttaaca agatgaagaa ggagaccacc gcggagctgg 180
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gtgatgagat cgtcaagaag gtgctcccat ccgctgatg aaaccaaacc ggccctgcct 360
tattctacga ctatagttac atgaacatca taaattaatg ataattttga agaaattgcc 420
gatgactccg acactgtact catgaaagat taatggatgg g 461

<210> 15621

<211> 111

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-D3

<400> 15621

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<210> 15622

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-D4

<400> 15622

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gatcgggcgg cgaaaacgaa ggggggcctc tttctcttct ctctctctct cctgtggtct 120
ctgcagcaga gacctgctc tgctcgattg ctccgttgcg cctgcgcctg cgaccgcctt 180
gtcgaggagg gggaggagtg tttgttcttg ggcggagccg gtgcagaggg ggcgagagag 240
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ggcggccggc ggcggaggcg gcggttgcgag gagggggtgc ctggcggtgc cgcgggagca 360
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 caagaagatc tgacctcacc aagccctctc cgctgta 458

<210> 15623
 <211> 411
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-001-Q1-E1-D5
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 cgccgctagg tgccgactgc cgaggccctc accggcgcg aagagcgccc gccagcaatg 180
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 aataaaccca gcaagagact cgctccatgc ctgccatcgt cgccaagacc aggagccgct 300
 gctctgagag cgcgtgctgc gacacttctt ccaggggttg aagcgcccag tgtgcaaccg 360
 aagctgaccg acccttcgtg ggggttcacgc agaccgcgga gatttggaac t 411

<210> 15624
 <211> 403
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-001-Q1-E1-D6
 <400> 15624

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 gcggcgcgcg ccctatcggc cgccatcctg gcggcgacca tgcagtggaa ggccgtcttg 180
 gtggcgcggt cggccgtgca agccgcgcga tcctatgcgt gtgacgcggt gctttctttg 240
 atgaccacca acttcatcag aacacacagg atactgtaat taatgtgtca ctggccactg 300
 acacgggagc gttctctgta catttgtatt accgtaactg ctggcctgcg gctgttgtat 360
 tttgtatatt tgcagtaacg ttttgcattg caaaaatccg aaa 403

<210> 15625
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-D7

<400> 15625

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 acacggcgcg gcgctcgcg tccgatcgcc ggccgtgggg agagctcctc gaccgttcgg 180
 cgttctcgaa gccggactct ctctccgacg ccacctcccg tctgcgcgcg aacctcgct 240
 acttccgcgt caactacgcc gccgtggctg ccttcgcgct gggggcctcg ctgctggcgc 300
 accctttctc gctcctcctc ctctggggc tctcgcgcg ctggtgcttc ctctagctct 360
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 tcgcggggct cgtg 434

<210> 15626
 <211> 127
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-D8

<400> 15626

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 gacatac 127

<210> 15627
 <211> 332
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-E10

<400> 15627

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tgccaaccga cttgaggaat ggggtgcatg aaactgcttg gagtagacgc aagctttatg 120
gaagatttct agtacttcat tcccaacaag caatcagata aaaacaaaag gagcaacttc 180
aacagaacct gcggtccag tgaatgggcc gaccgatatt tgcaaactgg tgaaattgaa 240
tccatgggta aaggaagatg aagagggaag aagctaacca atgtcaggag ccacgaagat 300
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<210> 15628

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-E11

<400> 15628

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gcaagccgac caccggcgctc tcgccggcgc gcgacttcta cataacgggc ttcaccgtcc 180
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acctgattac cggcatccaa cgcctgaatc agtactggag caacatcacg tgccccagca 300
acaacgggca gagcagctgg aagaacgcct ggaaaaatgg cggcgctgc tccgggctca 360
gcgagaaaga ctacttcgag actgcc 386

<210> 15629

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-E2

<400> 15629

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ggccacggcg tactccgtgg cgctcctcgg cggcgcgcg cttcccgcgc ctccgcgctc 120
cgccctctc cctcggcgca gcgtctgcc gcttcgcttc caagatgcac cgaggctctc 180
cctgctccgt gcgaaggccg cttccgagga cacatcggcc tccggcgacg agttgatcga 240
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cggcgcgcgtc gtcgcccttt ggctgacgtc cgtggtcgtg ggcgccatca acgccgtgcc 360
gctgctcccc aagattctgg agctcgttgg ggtcggctac accggctggg tcgtgtaccg 420
c 421

<210> 15630
<211> 425
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB83-001-Q1-E1-E5
<400> 15630

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accnaccctg tgctcacgag tgtggttcca ggagcagggc ctctgcgctc ctgggcctac 420
tccgt 425

<210> 15631
<211> 432
<212> DNA
<213> Zea mays
<223> Clone ID: LIB83-001-Q1-E1-E6
<400> 15631

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aagcgcaatt ggcccttct caccgggttc gccatcaccg gcttcacat cactaagatg 180
acggccaact tcaccgagga ggacctcaag aactccaagt tcgttcagga gcacaagaag 240
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ttgaatgaaa aattagcttc tttttcttca tctaaatgcy tgcagcctat gctccatttg 360
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<210> 15632

<211> 434

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-001-Q1-E1-E7

<400> 15632

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 acaccggcat ggccggccacg gcgtactccg tggcgctcct cggcggcgcg cgcctccccg 120
 ccgctccgcg ctccgccctc ctccctcggc gcagcgtctg ccagcttcgc ttccaagatg 180
 caccgaggct ctccctgctc cgtgcgaagg ccgcttccga ggacacatcg gcctccggcg 240
 acgagttgat cgaggacctc aaagcgaagt gggacgccgt tgaggacaag cccaccgtcc 300
 tcttgtaagg cggcgggcgcc gtcgtcgccc tatggctgac gtccgtggtc gtggggcgcca 360
 tcaacgccgt gccgctgctn cccaagatcc tggagctcgt tgggctcggc tacaccggct 420
 ggttcgtgta ccgc 434

<210> 15633

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-E9

<400> 15633

cacacgcgta cgcggacgcg tgggtgggga aatgcacctg gtgcagcagc taatcgtgtg 60
 gctttagaag cctgtgtaca agctcgtaac gaagggcgcg atcttgctcg tgaaggtaat 120
 gaaattatca aagcagcttg caaatggagt gctgaactag ccgcagcttg tgaaatatgg 180
 aaggagatca aatttgatgg tttcaaagcg atggatacca tataaaatag gcgtcgtttt 240
 agaacgtcgt gacggggaaa acccggggcg ttacgcagct taatcgcggt g 291

<210> 15634
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-F1

<400> 15634

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ctttcgcttc cccactcggt tcaggcgggt acgggacctg ggcggcgact tcaatctcgt 120
ccgcgggaag gttgagacgg cgggggctgg aggtggtgtg cgaggccacg accgggcggc 180
ggccggactc ggttaagaag agggagcgcc agaacgacaa gcaccgcac cgcgaatcacg 240
cgcgcaaggc cgagatgcgc actaggatga aaaaggcttt aagagctctt gaaaagctta 300
ggaagaaacc tgacgcgcag cctgaagaaa taattgagat agagaagctg atcgctgagg 360
catacaaagc catcgacaag a 381

<210> 15635
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-F10

<400> 15635

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ctattcagtg catgcagata gtgatccaga ggctgttctt cttcgcttg gatatgtgaa 120
gcctgaagtt atcagctgga cgccaaggat aattgttttc cataattttc ttagttcaga 180
ggagtgtgat tacctaattg caattgctag accaagactc caaatatcca ctgtagtgga 240
tgttgcaaca ggaaaggggtg taaaaagtga tgttcggacg agttctggta tgtttgtaa 300
ttctgaagaa agaaaatctc cagtcgttca ggctatagag aaacgaatat ctgtgttctc 360
tcaaatacct aaagaaaatg gggagctcat tcaagtattg aggtatgaag ctagtcagta 420
ttatagacca catcatgatt acctct 446

<210> 15636
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-F11

<400> 15636

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atttcctcgc tccatctcat atccaggcta tggcatatgg gcctatctta gaggggagga 120
gttgtgttgt tgctgatcaa agtggatctg gcaagacact ggcatatctt tgccctataa 180
tacaaaactt aaggaacgaa gaagttcaag ggctccataa atcatcccct aggaacccca 240
gggtgatagt attgaccctt actgctgaac ttgcttctca ggtccttaac aactgccggt 300
tgatatcaaa atctgggggtt ccatttaggt ccatggttgc aaccggagga ttctgacaaa 360
aaactcagtt agagagcctt gaccaagagc tcgatg 396

<210> 15637

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-F12

<400> 15637

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cgacttcgtg ctggtggcgc cgcacacctc cgccgtgcag agtattctcg tccacaagac 120
cgacgaggac aacgtgatgg tgctcgactc gcaaaagctg atgggcgctt caagggagcc 180
tggtgatcgc gtgcaattta cggagttcat acagaagaac ctccacctgt accagttccg 240
gaacaccatc ccgctctcaa tcgcgcgcgc cgccaacttc acacgcggcg aactcgccac 300
agcccttcgc aagaatccat atatggtcaa tattaatcat ggtgggta 348

<210> 15638

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-F3

<400> 15638

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gcgagcagca gcatggccct ctctccacg gccttcgccg gcaaggccgt gaacgtgccg 120

tcgtcggtccg ccttcggcga ggcccgctg acgatgcgca agacggcggc gaaggccaag 180
ccagcggcgg cgctccgggag cccgtggtac ggccccgacc gcgtgctgta cctgggcca 240
ctgtccggcg agccaccgag ctacctgacg ggccagtcc cgggcgacta cggctgggga 300
cacgcggggg ctgtcggggg gaccggagac gtgcgccaag acacgggagc tgg 353

<210> 15639

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-F4

<400> 15639

gctgggcatg gcacgatcat ttcagaagga gcttgaccaa atagctgaga aagcagatac 60
atctactccg gctggcttga gctatgtgtt gacagagaca acattagcat tacttcggca 120
tccggattgt tgtatctcag cttactcttc ggtggatgtg aaacgtagcg tggatgatgg 180
tgagaaacgt ttcaatcagc tttcaattga ggagaggggc aagtttgatg aagagacact 240
tgtcaacgtg aacagcatca agaggaataa aggaggcagc caaagatcaa gtggtttttag 300
caacgagtac attgtgataa ccatattggt tgctgctgag ggagtacata agcctccggt 360
tataaatagc agcaatgacc ttaaagacag ctctacaaaa gatgggtgcc ataacatcaa 420
gcaaaatact ggc 433

<210> 15640

<211> 408

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-001-Q1-E1-F5

<400> 15640

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gctcatggac accaacccca attcgttcag gaagttggtg cagaccttc tggaagccag 120
tggcagaggc tactgggaga caacggagga gaacctggac aggtcaggg agctctattc 180
ggagggtgaa gacaagattg aggggattga caggtaaatt gatttgccag atcggtcggc 240

cgatcgggttc cagcattcaa cccataacga gcttgggaact cttctgcctc attgggactc 300
 ttgtacaatg tctgggtgtg tgatttatat atatataaaa agttgtaaca tgtaatactg 360
 gaggatacaa tatttaacan agagggtggc ggttgttcca tccaaaac 408

<210> 15641
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-F6

<400> 15641

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 gtgaatttgt atccctttta tgacaaagtc acctctggta acatctcttt tgaggatggc 120
 attgaaaata ttgatattgg tgggcccacg atgatcagag ctgcagccaa gaaccataag 180
 gatgttctta ttgtggtgga tcataatgat tatcctgctt tactggagta ccttaaagga 240
 aagcgagacg atcagcagtt ccccaggatg ttggcatgga aagccatgca gcatgtcgcc 300
 tcttatgatt ctgcagtgtc agaatggttg tggaagcaat caaataaagg agagatgttc 360
 cccccaagct ttactgtgcc actggagctg aagtctacac tccggtatgg cgaggatcct 420
 catc 424

<210> 15642
 <211> 213
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-F7

<400> 15642

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 ggccccatgg gagtgtttga gttcgataag tttgcacctg gcactgacgc cattgccaag 120
 aagctagctg agcttagaac caccaaaggt gtcactacca tcatccgccg ccgccactcc 180
 gttgctgctg tccagaaagc tgggctggcc cac 213

<210> 15643
 <211> 425
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-F8

<400> 15643

tcgtgggtcg tcgcacgcct ctgcacttcg tcgtaccagc cccggagctc gccaccgcgg 60
ccgacccagg caagacggcg accaccacca cgacgacgag cgagatcacc acggagactg 120
gcgcgctgga ggactccgac tccctggcgc acctgctgct gcagcccggg acagaggacg 180
cggaggccgt cgcgctcggc ctcggcctct ccgacttccc ctccgccggg aaggcgggtgc 240
tggacgacga ggactcgttc gtgtggcccc ccgcgtcggt cgacatgggc gcgtgctggg 300
ccggcgcgatg gttcgccgac ccggaccccg cctgcatctt cctcaacctc gcgtgacagc 360
cacacacggt cacggcgccg aggcgtacgt cctcctgctc tgctctgctc tgccccgat 420
gatga 425

<210> 15644

<211> 415

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-001-Q1-E1-F9

<400> 15644

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aaatgaagat ttggctgatg gagttctcga agcggacggc taatctggag attcaaggaa 120
ttctgtgaat gttggtggct tttggttgaa ggatttaata gctgcttcgc actctggttt 180
ttggagttac tttctgcacg gagtgaatcc agttcctggt tacgctgggt gtctgagctt 240
gcttggtgctc tgggtgtccc agagatttat aaaaacaggg ttttcctccg tcattccgcc 300
gcagctagta tataatagat ggttcttggg tgttcatgta ctgtgttgct gtatataata 360
aaaacattgc aggatcagtg agtaattctg tgggcgaata aagtgcatt gtgga 415

<210> 15645

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-G10

<400> 15645

ctcgcgagtc gacacaagcc tctaaagtga gtcattattaa aaccacgaaa agcaagaaca 60
gcccagaccct caatctgttc ttgatgtgtt cttcctcgac ggtgagttgc acaaagatat 120
cttgaggaca cgcgacaaca ccacagggga tggttcagac caatggattt tctgggagga 180
caagcatccg atgttatgtt acataaagga actgctagag ctgtcagaat tgtgtgcaaa 240
ccagaaatta gaggtatggg atctagaaca tga 273

<210> 15646

<211> 152

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-G11

<400> 15646

gtcgggggtac ggctgcatcg gatcagacgc atgcaacaaa atgggggagt ttttttcttc 60
ttttttcttc tcccagtatg taccatgtag tgtatagtaa tctggtcatt gaaccaatta 120
aggcagaatg agtgagcgag ggacatttcg tt 152

<210> 15647

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-G12

<400> 15647

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gttcagttag gcacaggaag agctcgctct ccgttcattg aaagccatga agagcgactc 120
cgagtcgact gctcttaagt tcttcttcac gatcttttag atcgcgcggg gtgccaagca 180
gatgttctcc ttctgctgag acgcccggga cgcgccgtg gagaaacacc ccaagctcaa 240
ggcccacgcc gtcaccgtct tcgttatggc atgcgagtcg gcgacgcagc tgagaagcac 300
cggcgacgtg aacgtgacgg aggccaccct gaagcggctg ggccgcgacg acgccaaggc 360
gggcgtcgct gacgcgcatt tcgatgtcgt caagacggcg ctgctggaca acatcacgg 419

<210> 15648
 <211> 444
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB83-001-Q1-E1-G2

<400> 15648

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at ttgctgctg caccagcaat gactctanga acttgggggtt tgctcaatgg cttaaaggca 120
acatgttata cttcgttcat tgataaactt ctttcagagg tacatgctgt ggaatcaaga 180
gtgcagattg atgggaagtg tatgaccagt cgtggaccgg gaacagccat ggagtattct 240
gttatttttg ttgagcaact atatggaaag gaaaaagcta aagaagttgc tggggccaatg 300
gttatgcgtc ctcagcatgg tgtggaattc tctatgaaag aggtgaattc aactagttgg 360
aatgtttgtg gaacacccaaa tattctagta ccgatcgcta atgggacaga ngagatggaa 420
gcaactatga taattgacat tttg 444
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<210> 15649
 <211> 397
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-G3

<400> 15649

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gcgggtcgac acaagcctct acattgactc gtaggacgga gtcggcgacg agcacatggc 60
cggaggcggc cccgccggt cggegtttc aagcccctgg agggctctgc tccagcgagc 120
gctggacgcc aacgcccacc tcacgactc caactacttc caactcgcca cggtgggcgc 180
cgccggcaag cccggcaacc gcaccgtct gttcaagggt tttcaagaaa tctgtgataa 240
gattcagatt aacaccgacg ccccaacca caagattggt gagattaaag agctgcccc 300
tttggttaga tttgttggt cttcacagaa aactgggaac caatccgtat cagtggcacc 360
atagatgtta atgatgcttc tactacagac cctgcca 397
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<210> 15650
 <211> 51
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-G4

<400> 15650

tggacatggt ccaataatca gtgctactct tcattacata attttgatgc t 51

<210> 15651

<211> 427

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-001-Q1-E1-G5

<400> 15651

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ccggaccagt tccacgcggt ggtggtgacg aacctgagcg cgcgcggcgg cgggctgcag 120

ctgatcgacc tgtactacga ctggccgcga gggcgcgacc tgaacatcgt ccgcgaccag 180

ctgtccggcg agcggcgctg gagctggaac gtggagtgga gcaacggcac cgccttcctg 240

ttcgactccg cgtcctgccg caccttcag ttcgccgtgg gcctcctgcc gcccgactgg 300

aaggcccgcg gcgcgccta cctgnggcgc gaccgcgtcg acggcttcga ctgccacgtc 360

tgggtccaact tcgtcttcgg ccgctactac gaggacgtcg ccaccggacg ccccgtcagc 420

tggaact 427

<210> 15652

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-G6

<400> 15652

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tggcgaattc aagtggaatt acggatatcc ttacattgcc gctgtcataa acttcagcca 120

gacatggcg ttgtattgcc ttgtgaagtt ttacaacgcg acgcatgaaa ggctacaggc 180

gataaggcca ctagccaagt tcataagctt taaggccatc gtgtttgcca cttgggtggca 240

gggagtcggc attgcgatcg tctgccaac tggactcctg cccaaagagg gcaaagtgca 300

gaacgcgcta caggacttcc tcactctgcat ccagatggct atcgcagcgg tatcgcatgc 360
ctacgtcttc accgtggagc cgtaccaaca cgttcctgct ctaactcctg 410

<210> 15653

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-G7

<400> 15653

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ctgaatgcct ccggtgcacc gtcagccgaa ctttctcgac atctccagga ccgcatcaac 120
gatgacatgt cactcgtctc ccgagccaag gccggtgatg atctcgcgct ggaactgaat 180
ccaccagcaa tggggcgggcc gaggatcgat ttccgacagc aggaggggtg cagcatgtaa 240
agggggaaca gatgagatca tgtttgggtt ggtccccctg tgtatatgta gttatgtaat 300
cagccaatcc tttgtttgta aattaccagt attacaaat aataagaaaa tgggggttta 360
cgtgttaaa 369

<210> 15654

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-G8

<400> 15654

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taataaaaag ctaagaataa aaatagattt tctagtgtaa tatgtcaatt tgattaatgg 120
atatagtoga tgtcctgctg tgatatccat ggtgcttaat gcttggtttt aagtgtttca 180
tgcttttttag cgtagattat ctatattata ctcgttatac atgtgctcat acatgtgcat 240
catgcatttc atgaggtacg ataaataatc gtgtgacgcy gaagaagaac caagccgacc 300
ccaagcgtgg gctaattctgc aagctgaagc tgatgaatca acctgaagac ggttaaataca 360
agcaagtgct cggtcgaagg atactcgtca agcggacgtc acctaaatac actaaactag 420
tgttact 427

<210> 15655
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-H1

<400> 15655

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ccatggccgc caccgcgtct ctatcagccg tcggggcgcc gctgtcgggtg cccggggtca 120
ggaagccgct cggcgtgtcg tcgctccggc ccctgcagcc gagggcggcg aggatgacga 180
cgacggccgt gcgggcgtcg gcgtcgccct cgtccacgtc catcaaggag aaggctgcgg 240
ccgggctgac cgcggcggcc ct 262
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<210> 15656
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-H10

<400> 15656

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cgccggagtg gcagtagcgg tagagctcgg catcagctcc cctgctactc gctccacagt 120
agctcatcgg ctccctggta gcgtcttgca ccgcggtcga actcgcacaa gtccagtcgt 180
cctccacctt cggctctctt tcgcctctgc aatcatcacc ggccgttggt tcccggcgcc 240
gtcagcctct caccgagccg ctgatcatcg ctcgctcgct tctactgatg ctccctgttg 300
ctgttccatc caagccacat ctgggttccct cctcatcga atcagttcgg gctcatcaac 360
acatgtcggc cctcagtcta ccatgtcggc ccctgatgac ctcaaactcc ccga 414
```

<210> 15657
<211> 440
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-001-Q1-E1-H11

<400> 15657

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tcagctctaa ttttctccat ctattgctaa cagctcagac ctcagaggca agggaggtac 120
aatgccaaga gcaaattgaga tgttgagggc agattcaaga atgatggtgg tctttggtgc 180
cttgacatcg aaaccagagc aactgacatt tgaagaatcc ctcataattg tcaagaaagt 240
taaagcccgt gactacatgc tgtacctgtc attattcgac gttctcggca gaacggaatt 300
accccgagtc gacgcctacc gagagttaca gcagatgttt caaaaccacc cagatctgcg 360
cgaagagctc gagaggttca gaccgccgcc gccgccggtg cctaccacan agcaagcagc 420
anacaacaac atctggccct 440

<210> 15658

<211> 399

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-001-Q1-E1-H2

<400> 15658

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ccaaccatgc atcatcttca tggatgaaat tgatgctatt ggtggtcgaa gatttagtga 120
gggaactagt gctgatcgtg agattcagcg gacgttgatg gagctcctta accaattaga 180
tggatttgat gagctaggaa aggtaaaaat gatcatggcc acaaatcgac ctgatgttct 240
ggacccggcg ctctgcgctc ctgnacgttt agataggaag attgaaattc cgctacccaa 300
cgagcaatca agaattggaag ttctaaaaat ccatgcagcc ggtatcgcca agcatgggga 360
gattgaatat gaagcagtcg tgaaactagc tgaaggttc 399

<210> 15659

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-H3

<400> 15659

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gtccgcgtgc gataggctca atatcctcgc cagcggatcc cttccttgcg aggccggaac 120
 tgagctgccg ccggcgctat ggtgagcggc ggctggcgg ctgcgtcgga agtcgccgtc 180
 gttttcctca tcgcacctgt ccttgccatc gccttcgtct tcacctcat cctcctcagc 240
 tggtagctgg cgtggaggac ggtgctggtg cacgtgccgc tggtagcagga gatcgccggc 300
 ctgcgcccga aaaagccctc taaaccaag ccagccaacc 340

<210> 15660

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-H5

<400> 15660

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 atggccactt atctcaacgc accgccggca gccaccacga cgactgcaag ctgccgccat 120
 gccttctccg gtggcagcct ccgtctactc cggccgagcc gaccgacgt gcacgtgacg 180
 tgccaagccg ccgcctcctc ccagcagccg tcgtccccgt ccaggaggtc agcctgcctc 240
 ctcggcacgc cgtgcgccgt cctgctccgc ccacgtgccg cctccgccgc cgaaaccgac 300
 gacgagccgg ccatcaacgg ctggtggctg accgagttcc ccttgcccgt gccaagatc 360
 gtcaaccagg agatcaacta cgcggacacg ggcacgcgc 399

<210> 15661

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-H6

<400> 15661

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 acagcggcgc gtccactagc ggcgggcagg acggcgctt ctgctcccg ccagagccag 120
 cgctcccgcc ggccgccgcg tgccagcagc tcgcggcgcc cagcctccc agcaaggtg 180
 gtggcctcgc cggacggcgg acgaccccc cggtgccggt gccagtgcc ctgccaccac 240
 ctcgccccgc cggacagcgg gcgcggaaga agatgaggct cccggagatc cagcagatgg 300

tgcggtcgct gtcggtggag aacgacgccc tccgcaagga gatgagagcg ttgctggagg 360
attgcacggc gctgtcccaa gagaacggca agctagagac aaggctccat cagtccttta 420
cgctg 425

<210> 15662
<211> 371
<212> DNA
<213> Zea mays
<223> Clone ID: LIB83-001-Q1-E1-H7
<400> 15662

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atctccatga tctttcctgt ggtagatttt cacgtcaatt tatgaagtga gacatagagt 180
tgctgtcatg ttagaagtaa gcattccatt gttgcgttgg ttcttccgta ttgaattgaa 240
tttacagtac atgtatcatg tatgtacgat tgtacgcagg attggactct gaactccgag 300
gtgaatatat gtgtgtttgt ttggtgtcca aaaaaaaga cgaacaacaa gatcaaaact 360
tacctacacc t 371

<210> 15663
<211> 284
<212> DNA
<213> Zea mays
<223> Clone ID: LIB83-001-Q1-E1-H9
<400> 15663

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ggagaggccg gtgcatctgg tcgcgccga gggcagcctc tctgctctgc tcagggtgtc 180
ggccgctcgct gccgtcacgg gttatgcacg ggtcggtcag ggccacgatg ttcgatgagt 240
atttcgacac gagcatggct ggagaggggg ctgggcgaca ggaa 284

<210> 15664
<211> 403

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-002-Q1-E1-A1

 <400> 15664

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 ccagacgaca gaaaagctag tctaattgtaa tggctaattgc cctgggggtg cctttgctcc 180
 agcaagcagc agcacaccaa aggatggaat atagatgcc cggcaagtaa ctctggagt 240
 catttttggtc cagctgggag cagcacacca gagtatggac tatgaactct atttgcagca 300
 cttttgatat ataaggattt accccattga agatacagtt gttgcaacgg ttctaaattt 360
 tccatgccac aagaataatg aaataataag ccctttcttg acc 403

<210> 15665
 <211> 415
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-002-Q1-E1-A10

 <400> 15665

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 cgtgttcgac gccaaacttcg acaccctggt ggcgggcgtc aagtcggtgg ggcacggcga 180
 catgcccgtc gtggtgggag aggtcggctg gccaccgac ggcgacaagc acgccaccaa 240
 cgcgtacgag cagcggttct acaacggcct gctgagcgcg ctggcgggga acgcccgcac 300
 gcccgcgagg ccgaaccagt acattgaggt gtacctgttc gggctcctgg acgaggacgt 360
 caagagcgtg gcgcggggca acttcgagcg gcactggggc atcctccggt acgac 415

<210> 15666
 <211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-002-Q1-E1-A12

 <400> 15666

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 tagcgtattt ttaaagacag acaaatactc tgcttttata gaactgcaca ttgagcaggg 180
 tcccatctta gaaaaggagg gtatccctat tggcattggt actgcaattg ctgctcctgc 240
 aagtcttaag gtggactttg aagggaatgg cggtcattgct ggagcagtgc tgatgcctgc 300
 aagaaatgat gctggactgg cagcagctga attagcatta gcagtcgaga aacatgtcct 360
 ggaatcagga tcaattgata cggttggcac cgttgggtatt ctgcagttac at 412

<210> 15667

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-A2

<400> 15667

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 agagctgoga gtgggtgggg ttcatcgacg tcgacgagtt cctccacttc cccggcaacc 180
 agacgaccct gccagacatc ctgcggagct actcgaacag gccgcgggtg ggcgagctga 240
 ggacagcctg ccacagcttc gggccctcgg ggcggaccag aatccccaag caaggcgtga 300
 cgacgggcta cacctgccgg ctgcgggcgc cggagcgcca caagtcgata gtgaggcccg 360
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<210> 15668

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-A3

<400> 15668

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 acggcgccga cgccgcgctc atcgacgcgc tcccggcgct cgagatcggt gcctccttct 180

ccgtcggcat cgaccgcgtc gacctcgcca agtgccgcga ccgcgggata cgggtcacca 240
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tgctccgcag gatccccgag gccgaccgat acgtccgcgc ggggctctgg aagtccaggg 360
gagactacac cctaaccacg cggttcagcg gcaagcgggt gggcatcat 409

<210> 15669

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-A5

<400> 15669

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cagcagtcac ggttctgtcc attggaccta gcttttcggg aagcaatgcc atcgccccgc 180
ggaaacggta aaataaaagg agaaaaaaaa atgcagtact gtcagttgat tgctgcttat 240
aaagaagcaa agggggcaga gacgacgatt tttacaggta aaattatgta ctttgcaagg 300
agggaaacat gtgggaataa gtagtgagcc tacgttttagc tctgtatata aagtgacttg 360
attttatatg tactattacg gctggtgaaa cacgcttctt taattcaaag ctatggagtt 420
tt 422

<210> 15670

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-A7

<400> 15670

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tcgtctggag attcttctga gatatatgct gaagtgggtga aagggttgg cgagaccctc 180
gtgggagcct atcctggctg tgctatgagc tttgtttgca aaaaagatga ccttgactct 240
cccaagttac ttgggttacc aagcaagcca attggtctct tcataaggca atcaatcatc 300

ttccgttccg actccaacgg tgaggacctg gaaggttatg ctggagcagg attatatgat 360
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<210> 15671

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-A8

<400> 15671

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 cgatcaccag ctgctgcttg tgctgctgag ccaagagcag ctagcgatga acatcttgaa 180
 cctgcagccc atcaaccag gcgggcaccc ggcgttcccg gcggccaagg agagcgggca 240
 cctcacgccg gcgtcggtgc gcttcgacgg cgtgccggtg ccggcgagcgt cccacgcgca 300
 ctgtccgagg tggcaggctc agacgctgag ccgggacagc agctacgtcg gcgtggagca 360
 cgaaggggac aggaccaccg cgtccgt 387

<210> 15672

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-A9

<400> 15672

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 aatgatgcag catacttcag cctaatatgg gagctttaag gatggcttat ccaaataaat 120
 atgagattta tcgaagggtt gacactctca atggaaaaga gaactatatt cttatagctg 180
 aattcacgaa caagccaact cctgatgaga tcaccagtgc tttcaaagga caaaaaaggg 240
 aagaaaaggc atcttctgga ttctgggggt tcttaagtgg tttattttta gtcaagcgat 300
 ctgctgtacg gcgatgcaat cctccttgta tattttttatc tgataaggga tgtaatatgg 360
 ttcggaaaat atccgttcgg atccggattc gaagatggtg aacactggt 409

<210> 15673
 <211> 404
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-002-Q1-E1-B1

 <400> 15673

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 ggatgaatct tctcagaaaa cttttacaat gcgaaaaaag gagggacttg ccgactatag 180
 atattttcca gaacctgata ttcttgaagt agttatcact agtgactata ttaatgaaat 240
 cagcaagtca atgccggagc ttccagaagc aaagcgtacg cgttatgaga atatgggact 300
 cagcatgcaa gatgttctgt tccttgctaa tgatgataat attggtcatt tctttgattc 360
 tactcttgag catggtgctg atgcaaagct ggctgccaac tgga 404

<210> 15674
 <211> 451
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-002-Q1-E1-B10

 <400> 15674

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 aaccaggat ttggaggtgc tactcggaag tccttaaccg ctaggctaga ggccctttcg 180
 ctggacaaaag aataatgaga catctttagt atgctgtgct gtgccttagc taactcgta 240
 aaatgagcaa tgcagacctg aggcaccgtt gattcttaaa tggctattgt tgattgactg 300
 ttctaaattt tacttccatg attcttgtga gttcttaaat ttggcatttt ttccttgctt 360
 ccctgtagac tccaagatgt ggctgggtat ggagttgcct tggcagtaaa ggatatctac 420
 gctgatgcct ttggagaaag aaatttggac t 451

<210> 15675
 <211> 396
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-B11

<400> 15675

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tctggaccac cgcaaaatta gcgtcgatca agatttccat ctcacacgag ttgcaccaca 120
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aaatatggtt gggaaccatc ttctgcaaga cgcgcatgcg cgacatgtca tgagcattta 360
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<210> 15676

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-B12

<400> 15676

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agtgccgcaa ggcgcacttc acggccccgt cctccgtccg ccgcgttctc atgtccgccg 180
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accgccgccg ctgggtcatt cacgtcgagc ggatcaccgc cgagaagggtg aacggctcca 360
ccgtgaacgt gggcatccac cctccaaag tgatcgtcac caagctgaag ctcgacaaag 420
a 421

<210> 15677

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-B2

<400> 15677

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cgaacttcac tgaaatgacc agcagatata cacaagacat gcaagcgatt gatggccttc 180
tgaaggaaag gaatgagatc catgcttcct ataccaacaa tccacctcta aaacggagtt 240
ccagcaggaa taaagccaag tcgccttcga aagtggccaa aactggtaca gaaaaacatc 300
atcagaagga aaagaagggtg aaggatcact gcatggatgg atgtggaagt gacagcgata 360
actcaagtga aaagaaatca aaagagcggg tccc 394

<210> 15678

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-B3

<400> 15678

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ttacgtagcg gccaacagca tctcacgcta ctgtgcctac ctgcttgtaa aagaaccaga 180
tttgctacct gacagctact tggctgctga tgacctatc cgaagcacca tccacgaggc 240
taattcggac gtactgagtg gctgtgacac cctgcaaagc atatacagag ctctgattat 300
agaaggagga gatcagcggc agcaacaagg cggcagcgac agtaatacta cgacacttga 360
gaaagccggc cagctagctg ggtcactgat tcaccagttc acggatgaaa 410

<210> 15679

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-B4

<400> 15679

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cgccaatgcc agccccctcc ggcacgtcgc cgccgcccgt gctggcgggc ggatcaccat 240
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 gacgccctcg tacctgaccg gcgagttccc cggcgactac ggctgggaca ccgccgggct 360
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 ggcatgac 428

<210> 15680
 <211> 412
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB83-002-Q1-E1-B5

<400> 15680

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 cgggtcgga a ggggaagtca tgcaagggt gcctctacta ctcgtcagt ctcaagtccc 180
 gcggttacaa cccaatctgc gttgggatcc cccgtccat cccccaagtt cctaactacg 240
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 agggcaagac gttgttgcca tattgcangg gcctcgagtt attggtggac ag 412

<210> 15681
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-B6

<400> 15681

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gcggtccgtg tgacaaagaa gaacgaagtc cgcgccagcga taaagaagat gctcgaaact 420

<210> 15682

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-B7

<400> 15682

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acgcacgcaa cctctcatcg cttctcgcca ccaaccgtca ccgatgcgtg ctcacgtccg 180
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cgaatccaat 430

<210> 15683

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-B8

<400> 15683

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cctgcttctc gtccccactc aggctcaggg tcgcggttgc caagccgctg gcggccccca 180
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tctccggctc cgtcgaccag tccgaccaga gcttcctcaa cgacaaccag gtcgccgac 419

<210> 15684

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-B9

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gcgcgaggcc gcgggagccg acggcagcgg cggcggcggc gggtgcgagg tgtgcggcga 360

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cgc 423

<210> 15685

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-C1

<400> 15685

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gagctcttca agtacaagac ctaccacgag gtcgtcgacg agatctacaa ccagggtggac 240

cacgtcgagc cctggatgac cggcaactgc cgcggggcct cctccgcctt ctgcctctc 300

tacaagttat tcaccatgaa gctcacgctc aagcagatgc acggcctgct caagcaccag 360

gactccccct acatcagagc tattggattc ctctacctac gatacgttgc agaaccgaag 420

acactt 426

<210> 15686
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 15686

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gtangggcat gaagtaaaat gaatcatgga cacttttgct cncoccccc ctcattttgt 360
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gt 422
  
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<210> 15687
 <211> 436
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-002-Q1-E1-C11

 <400> 15687

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<210> 15688
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-C12

<400> 15688

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 tgtcgcaggc ggtgcacgcc gagaccgtca agaccatcaa gatcggagcc ccgccgccgc 240
 cctccggttg actccccggg actctgaact ctgaccaggc gagggacttc gacctccctc 300
 tgaaggagcg gttctacctg cagccgctgc cgcggcgga ggcggtggcg aggggtgaaga 360
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<210> 15689
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-C2

<400> 15689

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 agctgatcgg gctcgccggc gagaccaacg tgcagggaga ggagcagaag aagctggacg 180
 tcctgtccaa cgaggtgttc gtcaaggccc tcgtcagcag cggtcgcacc tgcgtccttg 240
 tgtccgagga ggaagaggaa gcaacgttcg tggaccctaa gctgcgtgga aggtactgcg 300
 tctgctttga tccccctgac ggctcctcca acatcgactg tggcgtctcc atcggaacga 360
 tctttgggat ttacatcatc aaggacaagg acaacgtcac tctggaggac gtgctgcaac 420
 ctggcaagaa catgctcgcc gc 442

<210> 15690
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-C3

<400> 15690

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gttgttccta caaattcact tgctttctgt ctctctctct atatacacac tgtataaaac 180
aagaacagct gtttatcaaa aaaaaaaaaa aaaaaagcac agctatatcc tgggttacgt 240
tcctcacacg gcggaggcaa acaaacccta gccgccaggc gcaggcggtc agggagcgag 300
taccgagcgc ccagttcac acgtgagatg tcagaataca agaacgtcgt tggggggagg 360
ctaaagctga agggtaaggc actggatgtg aaggaagggtg gagtcaagaa gaaaaaaaag 420
aagcat 426

<210> 15691

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-C4

<400> 15691

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aatggcggcg tcgacggtgg cgagcctctc tgtcccgggtg acgacgacga ccttcgcggc 180
ggcggggcggc ggcgacgtgc tgatcgtcgt cccgaggagg gcggggcgcca agcgcgtcgt 240
ctggttcccc gggggggcgc gccgcggcgg cgggcggttg gtcgccgtgc ggtccagcgg 300
gccggccacg ccgccggaga tctccgacaa ggtgtcggag agcatcaagc aggcggagga 360
gacgtgcgcg gacgaccaga agggcgacgc cg 392

<210> 15692

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-C5

<400> 15692

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cctgggttgt tcgggtgagc cgctagcgag agcgagacgg agcgaggctt tgccgctgca 120
gagcagagcg acatgagcta ccggcttga ggcgcggcgg accgcgagga gggggacgag 180
gagctgttcg agacggcgcc gtccgtctcc ggcggcgagg gctcgtgcga ccaggagcgc 240
cgcgcgttcg tgccgccgct gcgaggatg aactcggaca gcatctacga catggcgctc 300
atggtgtcgc agcagctccc agccaagaaa gggctatcgc ggtactacga gggcaagtcg 360
cagtcgttcg cgtgcatgtc ggaggtgcmc tgcttgagg acctgcgcaa gaagggcagc 420
ccctacaagc acaggaccaa caag 444

<210> 15693
<211> 426
<212> DNA
<213> Zea mays
<223> Clone ID: LIB83-002-Q1-E1-C7
<400> 15693

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ggacaggcgc cacacgcccc tcatgtccca gctgatcgtc aactgggggc tcatgaccat 180
cagctacccc ttgcttgcmc tgctgggtgtt cctggccgtg aaggacgaga gctactcggc 240
ttcgtcgggtg gaggacggcc gggagaagga cagcaagctg tccgcgccga ccagcttcca 300
ctgatgaaga agaagaagga ggaaggatag accaagatgc atgtcattgt aacacgggtg 360
ttccatccaa gtaagtttta gtagtagaaa tcaagaaaca actggagtag ctataccaag 420
aatata 426

<210> 15694
<211> 414
<212> DNA
<213> Zea mays
<223> Clone ID: LIB83-002-Q1-E1-C8
<400> 15694

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ggtaaaagga cagcatggtg aggggtcagcg tgctcaatga tgctctcaag tccatgtaca 120
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 agttcctgac ggtcatgcag cgccatggct acattggcga gttcgagtac gtggatgacc 240
 acagagctgg gaagatcgtg gtggagctga atggaagact gaataaatgt ggtgttatta 300
 gccacgttt tgatgtaggt gttaaggaga tcgagggatg gacggcgagg cttcttccat 360
 ctgccagtt tggctacatc gtccctaaca cttctgctgg aattatggac catg 414

<210> 15695

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-C9

<400> 15695

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 cccgctgtac cctggcgcca gtttcgaccc gtcggggtc gccgacgacc cggaggcggt 180
 cgccgagctc aaggtgaagg agattaagaa cgcccgctc gctatgttct ccatgttcgg 240
 cttcttcgtg caggctatcg tcaccggcaa gggccccctc gagaacctcg ccgaccacat 300
 cgccgacccc gtcaacaaca acgctgggc ttacgccacc aacttcgtcc ccggcaagtg 360
 agcgagggca tgatgcttgc atgctgttac cgtagacgct gcaggttgca ccagtatttg 420
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<210> 15696

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-D10

<400> 15696

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 aatgatgtcc gtgcattaag aataagtgat ttcatacatg cgcatgaaca ggtgtgtgca 120
 agtgtttcct cagattccag taacatgaac gagcttgtgc aatggaatga tctctatgga 180

gaaggcgggt caaggaaaaa gacaacgcta agctacttca tgtagctgat gttgcaagta 240
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 cgggtgcagt tggaaaagag ctaggttcac ctgccatcca tccattgaga gaattgatgg 360
 ctcaggtgga gcggaatgga gtagtatata cattgggttg tgcctccact ctgggccatg 420
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<210> 15697

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-D11

<400> 15697

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 atccctgcat taacactact ccgccgccac gccttactac gtgtatcgct accatatagc 120
 tcaatgttat attcctgttg ttgaaggaat gcctgttaaa atcgctcctc ttcgatgttg 180
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 gtaaccttga acgtttgtgc gcagttgtgt gtgagtacct gattaaattg aaacacctct 300
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<210> 15698

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-D12

<400> 15698

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 gtcaagaagt ggacagcctg agcgatatgt ctggccattt gaagttgatc cattggagtt 180
 ggcaccagat cctccaaagg aaccagaaga tgagttccca accaagctcg ttggctactt 240
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 catat 425

<210> 15699

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-D2

<400> 15699

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 ggagctccca cctcaccgct tggctgaaat caggcgcttc ttcgaggact acaagaagaa 180
 tgagaacaag gaggttgctg tgaatgactt tctaccagcg agcgccgctt atgaagccat 240
 acagcactct atggacctgt atgctacata catcggtgag ggcctgagga ggtatgattc 300
 tgatggctag gaaaggtggg gaggatgttg acgaaaaact gggagaccat ttaccgcatg 360
 gaacgagtac cgttattatt ttatttgtgt cgtgtatact gct 403

<210> 15700

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-D3

<400> 15700

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 acttctgttt tatcggtgcaa tacctcagca aacctgcct acatgatgcy atcgaaaccg 180
 gagacgttcc tggtaagct tcgttctgta acataaataa atccgaagca cttcaaagct 240
 ctacatactc gcccttgctt gtttgagaca agggcttgcy ttcttgctgc atctcatccg 300
 agatgattgt aatccgaaca atgtctagtt aataaagatg tcgctttgcc ctgaaaatgt 360
 ttaacgctgt aaacatcgct ctgtacgtga ttggatttcc tacatgacaa ttggctaagt 420
 gag 423

<210> 15701
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-D4

<400> 15701

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gaagaaatga aggcggctgc gagcaccatg gacggcatca tcaacacggg gtcggcgaac 180
ctcaccttgg ccccgtagat gggcctgctc aagcctaacg gcaagatgat aatggtcggc 240
ctgcccacca agcctctcga gatcccgccc ttgatctcga tcattgggaa caagactctg 300
gccgggagct gcatcggcgg catgagggac acgcaggaga tgatcaacgt ggcgccaag 360
cacggcgtga cggcggacat agaactgggt gccgcggact acg 403
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<210> 15702
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-D7

<400> 15702

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ttcctccgca agttcggcga gtccttccac cgcgaggacc tcctcatcaa caagtacaag 180
aagaacgacc catccgacca gatatatgtc ttcttcccca acgatgacaa ggtaggggatg 240
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gttctccagc agaacctaac tccgtttgcg aagtcgtttc tcatagagct ggagccgaag 360
atccatctgg aaattttcca ggaggccgag atgcttataa acatcaagga acatgt 416
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<210> 15703
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-D8

<400> 15703

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tccctgggct gccggatgaa gtggcgaggg agtgccctcg cccgggtgggc ttcgaccagc 180
tgccgggtggt gcgccgcacg tcgcgccagt ggaagtcgga ggtggagtcg ccggactacc 240
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cgacagcgcc gccggatgcc gacaccgaca ccggccccgc gcacaagcgc tcgacggcgg 360
ccaactcgta ccggctgggtg ctgctggaac cggccgaagg acggtggacg ccgctgccgc 420
ccc 423

<210> 15704

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-D9

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aaggataatc ctccctgcaa tacccttttc attggtaatc tcggtgatac tgtagtcgaa 180
gaggaattgc gaagtctctt cagtgtgcaa cctggattca agcaaataaa agtgttacgt 240
caagatagga aactgtttg ctttattgaa tttaggatg tgaatgctgc tacatctgtg 300
caccaaactc tgcagggtgc tgttattcct agttctggtc gtggtggaat gcgaattcaa 360
ttttcaaaga atccctttgg gcgaaggaag gattcagctg ctggccttgc gagcgttcta 420
aatgggg 427

<210> 15705

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-E1

<400> 15705

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gtcaagctga acccggcgag cgagtaccgc cccggcctgg aagacacgct catcctcacc 360
atgaagggca tcgccgccg catgcagaac actggctaag cggcttctct tcactcac 418

<210> 15706

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-E10

<400> 15706

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tcgacattgt tataacaaca tgttacattt gcacggaact gaacacttct attttcatga 180
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taaa 424

<210> 15707

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-E11

<400> 15707

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 gagacattgc atggacctgg ttgaacgaaa actgcgatca cgtgttgaat acatggaact 360
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 atgct 425

<210> 15708

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-E12

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 acaacccccac cgtcccgccg gaggagaagg ccgagctcat cggcgagatc gccaaagtcgt 180
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<210> 15709

<211> 114

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-E2

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<210> 15710
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-E3

<400> 15710

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<210> 15711
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-E4

<400> 15711

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ttggagc 427

<210> 15712
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-E5

<400> 15712

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<210> 15713
<211> 131
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-E6

<400> 15713

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ctgttgtaga c 131
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<210> 15714
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-E7

<400> 15714

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agaatagtc tgatcatga tgctggaatg gaagtggcga caacttgaac ttgttcaacc 180
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aagatggaag gttggtggtt tgtaactcat tggctgttgg ctatcctttt cttttgaaca 240
gaagagagag gattgaccat cttatctgaa tggatatatac aatgcgactc catgcccagg 300
gactggtcat gttgagaacc tagatacagg atcatacatt ataagcacat catcagagaa 360
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<210> 15715

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-E8

<400> 15715

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cctcgagacc ttccgcaaga accgcgagct ggatgtgatc cactcccgtc gtgccatgca 360
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<210> 15716

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-E9

<400> 15716

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atgaggcaga gatctaagta ggcgcattct gtgaccgagg atggcgagct tctcctgcac 180
catggctgag acgcgttggg atgattgtct ccctttgtag acgtgctttg ctgtagacgt 240
aggcgatgta aaccgtcctt tttgattaat tctagtatgt tctgagactg ggtttatatt 300
gtaatttgag gataattata tgatgctcta agtttattga tattcctgtc 350

<210> 15717
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-F1

<400> 15717

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gacgctgggg cgtccaagac ctaccgcgag caggctggca ccgtccgtaa gaacggcttc   180
atcgatcatca agaaccgtcc ctgcaagggt gtggagggtt ctacctcaa gactggtaag   240
catggccacg ccaaattgcc ctttgtcgcc atagacatat tcaatgggaa aaagcttgaa   300
gatattgttc cttcatcaca caactgtgac attccgcatg tgaaccgtac tgagtatcag   360
ctgattgata tttctgagga tggatttgtg agccttctta cttcagatgg gaacactaag   420
gatgatctta gactcccaac tg                                         442
  
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<210> 15718
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-F12

<400> 15718

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gtagcagtga aacctcgtgc cgcagcgagt ggcggcggag gcagcacagc aggcaggcgc   120
gacgtgcttg ccgccggtac cgggctgggc gcggcgctgc tgctggcgct ggggccggcg   180
cgcgcggcgg acgaggagta cgtgagcgag acgaaggagg tgatcgggaa ggtgcggtcg   240
acgatcgggc tggacaagtc ggacccgagc gtggccgacg cgggtggcgga gctccgggac   300
ctgtccaact cgtgggtggc caagtaccgg cgggagaagt cgctgctggg gcgtccgtcg   360
ttccgggaga tgtactcggc gctcaacgcc gtgtcggggc actacatcag cttcggcccc   420
acggcgcccc                                         429
  
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<210> 15719
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-F3

<400> 15719

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atgtgatgga tctagtaaag tgcgatggag ctgcattgta ttaccagaac cagcttttgg 120
tgcttggatc gacaccctcc gagtcagaga taaagagcat tgcaacatgg ctgcaggata 180
atcatgatgg ttcaactggg ctgagtactg acagcttagt ggaagcgggt tatcctggtg 240
ctgttgcact tcgtgaagtt gtgtgtggca tggcggccat aaagatctct tccaaagatt 300
ttatcttctg gttccgatcg cacacaacaa aggagatcaa gtgggggtggg gctaagcatg 360
aaccggttga tgcagatgac aatggcaaga ggatgcatcc acga 404

<210> 15720
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-F5

<400> 15720

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acatggacgc gaacggcatc ctcaacgtgt cagcggagga caagaccacc ggacagaaga 120
ataagatcac gatcaccaac gataagggac ggctaagtaa ggaggagatc gagaagatgg 180
tgcaggaggc agagaagtac aaagccgagg acgaggaaca ccagaagaag gtgaacgcc 240
agaacacgct cgagaactat gcttacaata tgcgcaacac catcagagac gacaagatcg 300
cctccaagct accggtggac gacaagaaaa agatcgatga cgccgtcgag ggggccatca 360
attggctcga caacaaccag ctgcgccagg ttgatgagtt tgaggacaag atgaa 415

<210> 15721
<211> 426
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-002-Q1-E1-F6

<400> 15721

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gggagcgtgt gtgtcttggc aatgggaagc tgcattgcgc tctcggccgg acggcgcgta 120
gctgtagggc ggcgtgccat agagctgcct cctgccgctc accttgcgtg tgaggacgac 180
tgatggtggc catggccact cggcgtcggg ggcggcggcg ccgagtttta cctctctact 240
aaggtanggc aacttgtatc ctttggcaat tgttctcatc tatctgggtc tatctgttgg 300
ctgcccggtg acgttatacg gtgatgttct aatagtactc aattggtctt ggagttcatg 360
ctacggctcc tctgttatat attacacggc tgacggctcc tccttattaa tgtgtacttt 420
gatgat 426

<210> 15722

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-F7

<400> 15722

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tccgcgacgg ggggttcctc ctcggaaatg gcggtggacc acgcgacggg gctgggcacc 120
gtggagaagc cgcggtttga tgctctgatg ccgagtgaga tgagcggcgg gaggacgcag 180
ttccggaaag tgaccgtgcc gcagcaccgg ttcgcgccgc tcaagcgatg ctggatggaa 240
atctacacat ccgtttacga gcacatggtg atcgacatac gcatgaatct caaggcgacg 300
agggtggagc tatcgacaag gcaggacaca ccatatgtca gcaaccttca gaaatgtgct 360
gactttgtgc atgcttttat gctcgggttc gacattgctg atgccgtcgc cttgccgcgt 420
cctgatga 428

<210> 15723

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-F8

<400> 15723

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cggttctcgt ggttcaagga cgaggagttc gcgaggcaga cgatcgcggg gctcaacccg 120
ctgtgcatcc agctgctgac tgagttcccc atcaagagca agctggaccc ggaggtgtac 180
gggccagcgg agtccgccat caccaaggag atcctggaga agcagatgaa cggcgcgctg 240
accgtggagc aggcgctggc ggccaagcgg ctgttcatcc tggactacca cgacgtgttc 300
ctgccctacg tgcacaaggt gcgggagctg caggacgcga cgctctacgc ctgcgcacc 360
atcttcttcc tgacggacct gggcacgctg atgccgctgg ccatcgag 408

<210> 15724

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-F9

<400> 15724

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tgtcgtcgtt gaccacaaaa gtgtttggag tgccccagcc aggggtgtac agggtttatt 120
acatcattaa taatattcaa gagttagtaa ccgctctgac ccaagagcat ccggtggtgc 180
tgatgttctg ggccgactgg aaccagccaa gcaaggccac gtactgggat ctggccatcg 240
ctaaaaagga tgaggccgta ttctgccagc tggactttga taagtttaaa gatgtcgtag 300
agaagttcag agtgaaggct ctgccgacgt tctcctgat caaggagggc gaggagcagc 360
gcaaggctcg cggtgccaaag gtcgaggagc tcaacatggc attatcagat atcggataat 420
ct 422

<210> 15725

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-G1

<400> 15725

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tcctgcaaga agcatcgga aagacattga ggaagcgaaa tatgaagctg aatctgtagc 120
tcaaaggata aatgataaat atgggttctgc taattacaag cctgttgctc tcattgacta 180
ctcaatacct ttctatgaaa agatcgcatc ttatgctgca tctgactgct gtattgtaaa 240
tgctgtgagg gatggcatga atttgatacc gtatgagtag accgtatgca ggcagggaaa 300
tgaggagctt gataagctca gaggtcttaa taagagctca tctcacacaa gcacacttat 360
tgtgtctgaa tttgtgggtt gctctccatc acttagtgga gca 403

<210> 15726

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-G10

<400> 15726

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aaaaaaaaaa aaaaaaaaaa aaaaaagaaa aaaaaaaaaa agattaaaaa gaaaaaaaaa 120
aaaaaaaaaa ataaaaaaaa aaaaaataaaa aaaagggggg gccctcctag gggttcaaat 180
tttgcttccc cttccatgca acttaatgcc ctttcaatgg tgtccccaat tttcatttca 240
ggggcggtttt ttttaaatct tggtaccggg aaaacccctg gggtttcccaa ttttaccccc 300
tttgaaaaaa accccctttt ccaaatcggg gttattcgca aaagggcccc tacatttttc 360
ctttccaaaa atttgcccc cttaaaggtc aatgggaccc cccctttttc cgggctttta 420
accccggggg ttt 433

<210> 15727

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-G11

<400> 15727

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ctgcaacaag ttggcgcta actgtggccc tgaggctgtc tggttcaaga cgggcgcgct 120
gctcctggac ggcaacaccc tcaactactt cggcaacagc atccccatca acctggtggt 180

ggccgtgata gcggaggatca tcctcgtcgg cggcgcgag tactaccgga tcaccaacgg 240
 actggacatt gaggacaagc tgcaccccg tgggcccctt gacccctgg gcctggccag 300
 cgaccccgac caggccgcca tcctcaaggt gaaggagatc aagaacggcc ggctggccat 360
 gttctccatg ttgccttct tcatccaggc ctacgtcacc gggaaggcc ccgtggagaa 420
 cctcgccaa 429

<210> 15728

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-G12

<400> 15728

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 gcacggggcca cggaagcgt tcgagctcct cccacggcag ccatgggtcac cgccaccacc 120
 tccccgctct tctccctctc ctccctccgc gcctccctcc ctccccccac ccgatttcac 180
 acgtctctct cgctccgagc cctctcccca cgtgctcgtc tctctgcgc cctccctttc 240
 gcctccccac tcgtttcagg cgggtacggg acctgggcgg cgacttcaat ctgctccgcg 300
 ggaaggttga gacggcgggg gctggaggtg gtgtgcgagg ccacgaccgg ggggcggccg 360
 gactcgggtta agaagaggga ggcgcagaac gacaagcacc gcatccgcaa tcacgcgcgc 420
 aaggccga 428

<210> 15729

<211> 154

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-G2

<400> 15729

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 cagctcgcga tcttcaaata gtcggcgcca ggatagacta gggcactccg gcccggtaca 120
 tgcagctgta ccaacttccc ctgaagtggg ctct 154

<210> 15730

<211> 241
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-002-Q1-E1-G3

 <400> 15730

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 gcagtagagc tgaaagtagc tcttggttcc aagatatctg aatggtaatt tgagtgcttg 120
 gcagtgtttc ttgatggact aaactctggt attagatatg aactagtatg ttaatatcac 180
 aattgaccag cttatgatat caacaaacgt caataaaata gtactgcaa tgatgtaatg 240
 c 241

<210> 15731
 <211> 451
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB83-002-Q1-E1-G4

 <400> 15731

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 tatatgggca ccctggtggt atgggagtgt gcacaagtct tcaggtttct ctaagcctcg 120
 ccaatatacct ctgactttcc cattcgtgtt ttatgacctg cttgagcaaa gcttgccctt 180
 ctacaacatg ctgaagcgcc aaataaggaa gataagagga ccgcagcaac caccattatc 240
 ggaccctcct ctgcctgtcc ctgcaaataa aaacattctt gtttgggttg gagatgaact 300
 tttgccccgt aacagtgcaa aggtttcagt gtttgattca gttgtacaag gaggagatgc 360
 tgtttgggaa ggtttacgta tatatgatgg aaaagtattc anattagatg aacatttgga 420
 cagattgttt gattctgcaa aagctatggg c 451

<210> 15732
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-002-Q1-E1-G5

 <400> 15732

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 cccgccgcga cctcatcgat caccttcagc tttcaatcat ggcggaagtc gatgtcgaac 120
 cggaggttgc cgccggagct cccaagaaga ggacgttccg caagtacagc taccgcggcg 180
 tcgacctaga tgcgcttctc gacatgtcca cggacgacct tgtccagctt ttccccgcgc 240
 gcgccaggag aaggttccag aggggtctga agaggaagcc catggcgctc atcaagaagc 300
 tgcgcaaggc gaaaaaggat gctcctgctg gtgagaagcc cgagccagtc aagacacatc 360
 tccgtaacat gatcattgtc cctgagatga ttggaagcat tgttggggtc tacaacggca 420
 agaccttc 428

<210> 15733

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-G6

<400> 15733

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 cctcggttac ttcattccagg ggctcgtcac cggcggttggc ccgttccaga acctgctcga 120
 ccacctcgcc gaccccgta acaacaacgt gtcaccagc ctcaagttcc actagaacgt 180
 tgggtgcatca gcatacctgc tgccgccgcc gccagttgtt tgetgtggaa agctagatgc 240
 atgcgtgttg taaaggaacc tgaagcgttg catcggtcat gattcatgca tggccagcct 300
 gctgcctgta acaacaaact agtattgatc ttattgagac cggaaactgt attgcacatg 360
 gtaaatcaat gtacaattcc tccctagatg cggaca 396

<210> 15734

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-G7

<400> 15734

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 gatctcggcg gcgtctatcg gaggcgtcgg ccgcactcgc agggcgggcc cggtgggcgt 120

atccgcctcg ccgttctctcc ggagctcctt cgtctcgtcc tctccacgt cgtccgcctc 180
 cgctccgcc tccccgctt cgtcgcggc ggctgtctcg gcgtctctgg catttacgtc 240
 ctctccgcg tttgcgggtt catctttggg aatcgagttc agctacagta taatgacaac 300
 acggagatcc cgtggtatgc agattagggc tggaaaggct gccctctgca tgaccaagag 360
 gtcaaggctt aggaagtcac ttgcccgta acatggtttc cgc 403

<210> 15735

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-G8

<400> 15735

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 tagttgagtc ctactataac aagcggatag ttggctgccc tgggtggtgag ggagaggatg 120
 aacacgatgt tgtatggttc tggttgaaaa aagatgagcc gcatgagtgt ccagtctgct 180
 cgcaataactt tgtgcttaag gtcattggtg atggtggtga tccagatggt catgacgatg 240
 aagatgatgg acatcactaa ggatgccttg tggttctgaa aataagaact tggtgaggca 300
 gatgaatcca ttacacttct ttttctagaa ccagactgct ccacggcatc cttgtttatg 360
 aaaagacagt tggccatcaa gcagggtgta gttttcagct aggtattttg tccaaacaaa 420
 agctgt 426

<210> 15736

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-G9

<400> 15736

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 gggttccaag ggccccaaagt tgggcggcgg tgggtgggaag cgctgaaaga acttaaggcc 180
 tgtttggagg ctgacgtcga gcgccacacc ccgcctaaga tgcggcggcc aatttggccg 240

ccacaactgc ggcgcgtggc gtgtggcgcg gcgtggtgtt tgcggcagcg atccaaacac 300
gcccttagtg tcgtttctcg acattgcagt cgttccttag ccaaagccac ttctgtagaa 360
cctgtgttga atttgcaaga cttattcaag cgttgcttgt gcgtgctaaa taccatggca 420
agagaacgga tttatattta tgcttg 446

<210> 15737

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-H1

<400> 15737

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cgtggtecca agcaattcaa ggtcgcacac ttgtctgctc tctgggtgtg ttattggcaa 120
cgtgaaagtc ttggtgagac tgtcatttgg aattagtga cccaaggagg tggccatgaa 180
gctggcagtt agatctgatg atccagagat cagtgcagg atccacgaaa ttgtcgctaa 240
tggctaaaaa caatggtagt atcttttttt ttactccttt tattttggct ttcattgctac 300
gggaagtttg aggggattca attaattaga gtatatgtaa gtttggtttc cagtccaatc 360
tatcattcgt tgcacatca ttcttccttg acacagtaca ccagtttttg gttgttttgg 420
atctgtacaa ttttccttat atactgagga cttaaaaa 458

<210> 15738

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-002-Q1-E1-H10

<400> 15738

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ttcagtcact gtctacaaag gctattctct gcgtaaagaa actgaggaat atcttgctgc 120
acgtgggtta aggaacgctg tctattccat tgggtgcagcg gatgcaagtg acgaattgtt 180
tggcgatctg gttccctgcc cttttcagca acctgatgag aacacacaat ctattttgaa 240

aatgtcacag ggacaggaga tggaaacaag atcatcagag catcccaaag ttgtgatct 300
 ggaaccatta ccagatagcg aactctcttg tattcttgaa tttgatggag cttgtaaagg 360
 aaatcctgng aaatcangtg ctggagtcac tattcggcgg ttagatggat ctgtgattgc 420
 tgtactac 428

<210> 15739

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-H11

<400> 15739

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 ggtcgctccc ggtcgcgcac tggtcagcat gaggtccttc accgtgcttg cctctcgccg 180
 caaggctcag tgctcaccgc cgccgtggcc gttgccgccca gcgtcctgct tgcaggttgc 240
 ggcgccatgg cccaagaggt gctgctgggc gcatgacgac gcaggctcgt ctctgagcct 300
 agccagttca tcgtcaatgc cggcgacacc agcactctca agattgacgc cggcttcacg 360
 cgcaatgtcg tggt 374

<210> 15740

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-H12

<400> 15740

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 gaaaggattt taacagagga tatatttaag aagccagtta ttgtctataa ctatccgaaa 120
 ggaataaagg cattttatat gagactcaat gatgatgaca agacggtggc tgcaatggat 180
 gttcttgtgc ctaaggttgg tgaattgatt ggtggaagcc aaagggagga acggttagat 240
 gttctgaaac agaggatact tgatgctggc ctgcctttgg aaccctatga atggtacttg 300
 gacctccgtc gctttggatc tgtaaagcac agtggttttg gggtggggtt tgaaaggatg 360

attctatttg caaccggaat ggagaacatc agagatgtta tacc

404

<210> 15741

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-H2

<400> 15741

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ccgtgctcaa cgagaagggc ctgcacttcg agatcgctcc cgctgcacctc accaccggcg 180

cccacaagca gcccgacttc ctgcgcctca accctttcgg ccagatcccg gctctcgtcg 240

acggagacga agtcctcttc ggtcccggtg cgatcaaccg gtacatcgcc agcaagtacg 300

cgtcggaggg cacggacctg ctccccgcga cggcgctggc ggccaagctg gaggtgtggc 360

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<210> 15742

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-H3

<400> 15742

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aaggggactg atatttacag agacctgcat cactacaagg aggcccaaag agtttctggg 120

ttcttgatct tggccattga agcaccgata aacttcgcca actccaacta cctgaatgaa 180

aggattaaaa gatggataga ggaagaatct tttgaacagg ataaacatac tgaactccat 240

ttcataatct tggatctgtc agctgttcct gcaattgaca caagtggcat agcgttcctc 300

attgacataa agaaatcaat agagaaacgt ggtctggagc ttgtgcttgt caatccaact 360

ggagaagtca tggagaaaat acaacgtgca aacgaagctg aaaactattt t 411

<210> 15743

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-H4

<400> 15743

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aaagcacagg cgaagcagca gcagcgagag gccaccacaa acatggcgac cacggcgttt 120
ctacccccgg ccaagctgcc gctgcagggg cgtcggttcg ctagcccca aacggcgggg 180
cgtatcagtg tcaggggtccc tccggcgca gcgcagcaag agcagcaggt gaaggaggag 240
gaggccgagg cggcgagcgt gccgccgcg caggccgcgg agaaggaggc gaggaagggg 300
gacgcgcagt ccctgccgcg gcagcctttg gcggagagca agaacatgag ccgcgagtac 360
ggcgggcagt ggctgagcag caccacgcgg cacgtccgca tctacgctgc gtacatcgac 420
ccgggtgaca acgcgttcga ccag 444

<210> 15744

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-H5

<400> 15744

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gggtcccgcgc ttcgctgggc aagccggtga aggggcttgg cctgagcatg ggccgcgagc 180
gcgcccagcg gagcattgtg tgccaggcgg cgagcagcat ctccgccgac cgcgtccccg 240
acatggagaa gcggaagctg atgaacctcc tctcctcgg cgccatctcg ttgcccaccg 300
tcggcatggt cgtcccctac ggcgccttct tcgtccctgc cggctccggg aacgccggcg 360
gcgggacctc cgcgaaggac aagctgggca acgacatcac ggggtggaggg tggctcaaca 420
cgca 424

<210> 15745

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-H6

<400> 15745

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ggagctgtac gtcttcagcc cgggatccca gtaccagtgg tacggcaagt atgcctacgt 180
ggtcgtaggg cctgccatgc tggagcctgt gatgctggag cccggagaca cgtggcgggg 240
ggctcagtac ctgcgcaacc ccaatcttta ggcattgtag cagctgggag aattgatgac 300
cctggacaca tcacatgttc ccgtacgtgt attcagatca tcagatgagg tcaggcgaga 360
tgcaaaattg gcaaccacaa tggcttacag atgttgga aa tgctgtccat agcgaaatgc 420
tgatg 425

<210> 15746

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-H7

<400> 15746

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tgcagtacct tgaagccatt cgccgtctcc gttctgcagg atttgttcca gatcgaaata 120
tctatataac atttgttcct gacgaggaga ttggtgggca tggcgggtgtt gaaccatttg 180
tttcatccaa ggagttcaaa gatatgaacg tggcattagt ccttgatgaa gggcttgcc 240
ctccagggga ggagtaccgt gtgttctatg cagagcgtag cccttggtgg cttactataa 300
aagcaacggg cgcaccaggg cacggtgcga agttgtatga tggtagtgca atggagaatt 360
tgatgaagag cgtggaggct attaggagat tcagggcac ac 402

<210> 15747

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-H8

<400> 15747

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaataaaa aaaaataaaa 120
 aataaaaaaa aaaaatataa aaaaataaaa taaaaaaaaa aaaaataaaa aaaaaagggg 180
 gggcctctta aaggtttcaa atttaattta cccttggttg gaatttataa ttttttaaag 240
 gggttcccca atttttattt aaggggcttt ttttttaaaa tttgcgtagg ggaaaaacct 300
 ttgttttacc aagttaatc cttttaaaga atacccctt t 341

<210> 15748
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-H9

<400> 15748

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 ttacaagcag gtttgtgggc gagcggatgt gtggggcgac ggcgttggtc ctgagatggc 180
 agcgcacctg gagggagcgc tgaacgtaag ctttgacggt gtgtaccact ctccggtagg 240
 ttccgatgat gaacaaaggc cctggatgg ctctccggcg atcctcaagc agtgggtgca 300
 tcatcttctc agctgagata gtgacataca agaggagcta gctgccggaa cagacagaaa 360
 ctgggatgtg tcctgcagct gacatgacac cattggccac caaagggcaa aggggaattt 420
 tctctct 427

<210> 15749
 <211> 416
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB83-003-Q1-E1-A1

<400> 15749

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 cgtcagaccc ggcgtccatt gggcccgccg ccgccttctt cgccatgccc ggatgggtccc 180

ccggccccgcc catcgccgag gcgatggaga gttttactaa tgggaatggt cgattactga 240
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gagagtctgt ttctgaggtc atattcctca gcanacacac tgcagtctcc anacgtccag 360
cactcacagt gcatccaatt ggtgtggcac atctgaagga ggatggaaac ccaccc 416

<210> 15750

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-A10

<400> 15750

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ttggagtgc tactgettca cctggtatgg tcctcacaga ccttctgtta agtggttcat 120
cgctcagaaa taaacagatg ttcaatttaa tatgtgaact tccagaaaca gtagccagaa 180
ctttggttcc aaggatgaga gttgtaaaag gaagtggaaa ggcaatcaac tacttaacac 240
caccaaggat cttgcttgct ctgggtactg catggggtcg acgggggtcga tggtttgacg 300
acgaggggaag agcgggtgat gcagctgaag ctgatagaat tcgcaactgg gctgaaagtc 360
gagcacgctt ctcgttcacc gacgccatgg agatgtacac ggaaaacaca t 411

<210> 15751

<211> 214

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-A12

<400> 15751

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agatggctgg aggcacgtcc gtacacatcg gtcggtggat caatgagtgg cagcccgga 120
gagacaccat ctcattcact ttgggctgga cccgacacac gctgtcctcc gtctgggtcg 180
tctggctctc tgtatccacc tacatctaga cagc 214

<210> 15752

<211> 415

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-003-Q1-E1-A2
 <400> 15752

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 cctgacctgg aggagacgag caccgcccgc caggccaccg tcgtcctcgg cgtggccccg 180
 gagaagaagg ccgcgcccga gtctgctgag gccgcggcgg agtccggcga ggccgcccac 240
 ggctgcagct gcggtggcaa ctgcaagtgc gacccttgca actgctgata acatcgatcg 300
 acgaccatgg atatgattat tatctatcta ccttggtgtg gtggttgaac aataataagc 360
 gacgccgata tggctgccat acataggtat tgtgtggtgt gtgtgagaga gagag 415

<210> 15753
 <211> 421
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB83-003-Q1-E1-A3
 <400> 15753

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 attgttggtta ttggttcacc ggatcctcct gcattcgtgt atgacgatga agactacaag 180
 gatgtttttg tgtcagagga ttgcttgctc actcgcgacg agaacgagtg gtacagggaa 240
 ccaatctcgg ccaatgccac gtctggcaaa gaaggtttgc aagcctcggg tgctgactga 300
 ttttaagtcag gttctgtatc agttttgtga ctattataca gatacaggat ttgatcaacg 360
 cctcgacatg gtangaaaga aactacggg ataggcgggg attgttcaca agacaatctg 420
 g 421

<210> 15754
 <211> 301
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-A4

<400> 15754

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cgacgaaggc cacacattct ttctgttcat aaaaggctct gtacatgaga ttgcatacac 120
cgttgttata actttacccc caatagactt gtaaagtctt gtgcagtaac tcttatatta 180
cttttgcttc aacattgtaa gatagaagac ttgccaaaat aaaatctgaa ccttgggtcc 240
aatattccat gtaaacacga gcatgtttct tgatcaatca aaatctcaag catttttggt 300
g 301

<210> 15755

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-A5

<400> 15755

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaacaaaaaa aaaaaaaaaa gggggggccc cccaaagggt tcaagcttaa 180
cttaccgta aatgaaactt aaaacccttc caaagggtcc cccaaattta atttcagggg 240
cgttctttta aaaacttcgt aatgggaaaa ccccggggtt acccaattta aacccttttg 300
aaaaaaaccc ccttttcgca aatgggctta aaacgaaaag ggcccgaccc attccctctt 360
ccaaaaattt g 371

<210> 15756

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-A6

<400> 15756

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aacctaatac taatataggg tcaaaatata ctcaaaatga tattgggaat gaggagcttg 180
atgagcgcca gaacaagcct ataagatact cagagatgaa cttcaaccag tgaagcatct 240
tgtaaggatga actgcatctg aataagctgg ttatggtaat gcacggtttt gccgcgtctg 300
gaaatgtcaa aattgttgcc gcgtctcaag acctggaccg gtgctgaaga gagcttgata 360
ataatggttt tcgttgggtg acaaagttaa agagtttttt tt 402

<210> 15757
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-A7

<400> 15757

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atacctagct cagacaaggc gactcggctg ctcaagtttg ctgcaaagtgt gtgcttgact 120
ggagcttttc tgatgctgtt tgccttgctt gatgaaaagg cactggccta tcgtctcttt 180
ggtttggatg agattattga tcctagtcaa ctcaaatata ttccggctgt tcacttcagt 240
acagcggtag ccctgtatct ctttcggaag catcttgctg gtgcgttggc aaatttaggg 300
gaggagctag ggaatctcct atccctcctt attgctgctt ctccaacaga gaagcaaggg 360
agaaagagaa ggaggaagaa gaagacagca agtacagatg tgagaagacg tcgataatga 420
agagcagcta 430

<210> 15758
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-A8

<400> 15758

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agttcacaca aaatcagttg gtagcaaac agattataac gaagataatg ccagtggtga 120
gacacaaccc ttcagaggtc aagggtgacg cactgaccaa caaactgata gataccagac 180
ctcaggatga ttggatgctc ttagggaaag gatgaaaagc attcaagttg cagctatagg 240

tcattttgac ggagctcagg ctcggccgtt ggcaagtatg aacggaagta atatgctgca 300
 tgggggaaca cgattggacg gtgagcccca gcaacaaagt aatattccac ccatggatga 360
 gcgagctctc tctgggctac aagcacgaat ggagaggcta aagagcgggt ctatggaatt 420
 actatagatt gata 434

<210> 15759

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-A9

<400> 15759

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 ccaacaaact gatagatacc agacctcagg tacattggat gctcttaggg aaaggatgaa 180
 aagcattcaa gttgcagcta taggtcattt tgacggatct caggctcggc cgttggcaag 240
 tatgaacgga agtaatatgc tgcattgggg aacacgattg gacgggtgagc cccagcaaca 300
 aagtaatatt ccacccatgg atgagcgagc tctctctggg ctacaagcac gaa 353

<210> 15760

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-B1

<400> 15760

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 caagccgaga gcggggcggac gcgctgagct cgctggggcg ggccatggcg gaaataaatt 120
 ctacaggata cagggaaaat ggcgacggcc atggcgatga gctgagtcaa gcgcgcgcga 180
 gcgggaagat ggcgatgggc gagcgccgag ggacgcggga agagtgaac gatttccgcg 240
 cgaagatggt agtgggtagg tacgcacgag ttagaactcc tgtttcttgc acgatgtagc 300
 agcaagcaaa aaaaaaaaaa aaaaacaaaa cggaagaaat cgaagagagc cagcggggcgg 360
 gcggattgga ttcggaacat catgtggttg cggatcgcca gagcgacagg ggaac 415

<210> 15761
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-B10

<400> 15761

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aggaaataaaa tcaactggaga agtccttgga gcttgggaagg ggtgcacatc ctgcaagcta  120
catggttgaa gagatatggc aggagctttc taaagcaaaa tacatcgaat gggagagctt  180
atcaagagac cgaacttgtc aactgcaaaa gctgaaggta gcatgtaaag aggccctaac  240
gagttacaac agccttgata acccagccgc aggtgcgcca gtagaacagc taaatgagct  300
cgaggaagtt ttcaagaagg ctgcaaagac tgatactcca gcagaagtac ctgaccatct  360
cggttgcaaa atcacacttg atatcttcag agaccgggtg atcaccga                409
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<210> 15762
 <211> 426
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB83-003-Q1-E1-B11

<400> 15762

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agaagaagca aatgaggatg ccaaattgatt cagacccta ccattgtttc ggggacaatt  180
tatcagtaga tcacggcgtt acaatttacc agatagtccc agggctttgt ttctttgccc  240
tcacatctgc tgtaaaaatt ataactttgg ccacagacaa actgcataac tttgtacata  300
aactgaatgc ttctaaata tttgttcctt tatatagtta tatgtgaatt gtatgaagct  360
caaggaaaga tgtttcattc cacagaatgt gatagttgaa agcatctgca tttcanaaag  420
ataaaa                                           426
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<210> 15763
 <211> 430

<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-B2

<400> 15763

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gtggtggcca ccggcccgcg cggcgccggc ggggggcca tctgcgcgtc catgtccatg 180
tcctcctcca acccgcccta cgacctgacg tccttcgggt tcagcccat caaggagtcc 240
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gacgtcgta tcgtggggcg cggctcccg gggctgtcct gcgcgtacga gctctccaag 360
gaccccgccg tgagcatcgc catcgtggag cagtcgggtg ccggggcgcg cggcgcggtg 420
ctgggcgggc 430

<210> 15764
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-B3

<400> 15764

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cctcaatccg aacaaacccc aaggagcaca aaaatttcga atccatcgga aatccggcat 120
ggcaatgtca gatctcacag ccacctgat tccgaagcca gacggggccg acgacgagtc 180
ggtggagatc cgggaggtgt gggcggacaa cctggaggag gagttcgcg tgatccgcga 240
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ccccgtaggc gccttcggt cccccgccga ctacaactac gccaccctca aggccaaagt 360
cgacatgctg cacctcatcc agctcggggt caccttctcc gggccgc 407

<210> 15765
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-B4

<400> 15765

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aagataacta aagaagggga agatctattc agtcaaccaa gggaacgcca agaactggga 180
cgcgctgtt gccaaagttg tggagaagtg caagtaccè aaagatggct cgccaccaag 240
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tgtgtttttg taccctgctg acgagaagaa cccaaacgga aagctccgta tcctgtacga 360
agttttcccc atgtcgttcc caatggagca agcacgaagc cagtccttca caggcaaaga 420
acgggctctt gatctgatcc caacca 446

<210> 15766

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-003-Q1-E1-B5

<400> 15766

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ccagtcacatca gcaggcatgg ggttcttccc accagtgcag gtgcaacatt ctccgtctgc 120
ccaacgccaa tgactcaacg gtggcatggc attcatcggg ctataatggc agcactttgt 180
gctaacttct gtacattaac caataatcac ctagcgtcga gcttatacgt ggctgacct 240
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tgatgactct cgttttggtc agagttgttt aactcttcct tgttctgtgt agtagttaga 360
tgttgtgtct ctgtcncccg tttgctttga tctcctgagg caaaagaaag tggcactgaa 420
attgttgccc 430

<210> 15767

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-B6

<400> 15767

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ctataaaggg tgtagagatt gtttcatcag tatatatcat ctgtcccgat ggggttttgtt 180
ttgtgctttt cacggttcat cattgtggaa gcacatgtat tattagtaca agaactgcta 240
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<210> 15768

<211> 409

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-003-Q1-E1-B7

<400> 15768

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tccctaccca gatgtttccc cattctgctg ctgctaactc aacttcaagg ttcattgcat 180
cgaacaatca aagctttgct ccgaggccag gtctaagtcc cgcacagccc tcaagtccaa 240
cacagggtgca ggcacagcca gtcctcctg caccgcccc gactgtgcag acagctgata 300
cgacaaaagt gtctgctgag ttgagacctg ttattggtag actaactaga ctattcgatg 360
agacgtccaa agctctggga ggatcacaag ctactcaagc anaaaagcg 409

<210> 15769

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-B8

<400> 15769

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ccattctctg ataaggcgtc tgcttggtgc tgtacaatct gtgtgtacac ataagatttt 180
gtatgtgctt tgctgtgttc acacaagcat ggattcggtt tgatatccaa ttcttgaagc 240

catacaaatt ccagaagtaa gaacccacgg aatacgaaga tttctggatc gttttgttct 300
agagtgtagg attggatgct tcttctgta taaatttgtt tgtcaaaact gaaaaaaaaag 360
tctcttttctt ttctgctata ttgacttatt atcgattctt tctagctcgg ttgcttttga 420
ttcgt 425

<210> 15770

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-B9

<400> 15770

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gcgctcggct gcgtcttccc cgagctgtc gcccgcaacg gcgtcaagtt cggcgaggcc 180
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ggcgccgtcg agggctaccg catcgccggc ggcccgtcg gcgaggtcgt cgacccgctc 360
taccgccggc gcagcttcga cctgctcggc ctgcgcgacg accccgaggc cttcgccgag 420
ctcaaggtca aggagctcaa g 441

<210> 15771

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-C1

<400> 15771

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gaagccgcgg cagctaagct cacagctcgc gctgccgccg tcgtcctccc gcgcgccggc 180
cccgtccgc gcgaccgccg gggaggcggg gaccgaggag gcgcccagg ggttcgtggc 240
cccgcagctg gacccagca cgccgtcccc gatcttcggc ggcagcacgg gcgggctgct 300

ccgcaaggcg caggtggagg agttctacgt catcacgtgg gtgtcccca aggagcaggt 360
gttcgagatg cccaccggcg gcgcgccat catgccggag gggccaacct cctg 414

<210> 15772
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-C10

<400> 15772

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ctggagagag gccaggtcaa ggccgccatc gacaggctct ttggcaccaa ggaaggggag 180
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gtcgacgtcg acgaaactgc gtcgccccgc acggatttaa ccgatttggg tgatctcata 300
aaatccttct gagctcatga cgatcgatct gttgggtgat gctactctg tccatcgatga 360
tgtaccactg tctgtgctca cttccacgtt cctgacgggtg ttgtgttcta gtgtat 416

<210> 15773
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-C11

<400> 15773

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atagcttgtc agccatggcc accgccgccg cgtctagcct cctcaagtcc tccttcgcgg 120
gctcccgggt cccggccgcc acgcggacca caccggcgtc cctcgtgggt gccaccggcc 180
cgcgcggcgc cggcgcgggg cccatctgcg cgtccatgtc catgtcctcc tccaaccgcg 240
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tgaccgcgtc ctacatgacg gacatgatca cctacgccga caccgacgtc gtcacgtgg 360
gcgccggctc cgcgggggtg tcttgccgt acgagctctc caaggacccc gccgtgagca 420
tcgccatcgt g 431

<210> 15774
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-C12

<400> 15774

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ctaccctata atcgttcaga tgaccatac acagtcgcgg acaagtggct cctgaaagaa 180
aatctgcctt tgacatatcg ccaacaggtt gtagaattta tactgcagaa ttctggccag 240
aacaactttg ttccagatcc atcttttcgg gatccctata ctggggccaa tgcatatgtg 300
cctgggcaac catcatcatc atccaatggt aatactcgg aaccaatttt caagcacata 360
ccgaagagtg gaatgctgtc atttgagaca gtcagtttg atggaatcct aaagaaagtt 420
gc 422

<210> 15775
<211> 210
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-C3

<400> 15775

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gctcgcagtt taatttagcg gtttaggtgt ggatctgtga accccatggc gcctctgctt 120
gattcgtgtt tcacctgtta tgttctgaga ttcatgataa tgctatgaga actgaaattc 180
ccgtttcatg cttcttaaatt ctttgacctc 210

<210> 15776
<211> 408
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB83-003-Q1-E1-C4

<400> 15776

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cgatgacagc ccaaccatat ttgacaagat catcanaaaag gaaatacctt ctactgtggt 180
ttacgaggac gagaaggtac tggctttcag ggacatcaac cctcaagctc caacacacat 240
tctcatcatc nccaaagtca aggatggact aactggcctg gcaaaggctg aagagaggca 300
catagagata cttggctatc tctctatgt tgccaagggt gttgcgaagc aggaaggact 360
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<210> 15777

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-C5

<400> 15777

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gccgaccgct cctcttcttc aatgtgtcgc gcccttcctc tgctcgctgt aaacagtcga 120
cctccctcgg ctcctctctt gcttctctct cctcagatt tgtctgcgcc gttggtgctt 180
cgtcttgccc aaccgccctg gcctctgctc gaatthttgca gcgcgagct cccatgatcc 240
ccatggtgct cgcctcaag ctcgctctct ggcgcctctg tgctcgacgc ccagcggagg 300
ccccttccct gcgcgctct tctctcctg gtgttttctt cctgctcgcg cctatctccc 360
tcgtgtgagc gcccaaccgt gct 383

<210> 15778

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-C6

<400> 15778

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aagatctgca acgagctcat cagaggcatt gatgaggaca aagctgtggt gcaggcactg 180
aagagggaaa ccgagaaggc acaacaagag ctccagaaag agcgtgaaat gcttcaactt 240
gcagatgagt ggcgtgaaca aagggttcag atgaagcttt tagaagcacg ggttcaattt 300
gaggagaaaa atgcagctgt taatcagctg cgcgatgaac tccaagctta tctggatact 360
aagaaagagc aggaaccgtt gaatgatcca atggaactgt cccatgcac tgaattggg 420
cgactgcag ctgat 435

<210> 15779
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-C7

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tgtatagcga gtactcgctg tcgggcgtga gcacgggtgc ggactgcgac ggctcgctg 180
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ggaacgtcga cgtcgacaag ctctgaaaat ctg 393

<210> 15780
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-C8

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gaaccggagg ttgccgccgg cgctccaag aagaggacgt tccgcaagta cagctaccgc 180
ggcgtcgacc tagatgcgct tctcgacatg tccacggacg acctcgcca gctcttcccc 240

gcgcgcgcca ggagaaggtt ccagaggggt ctgaagagga agcccatggc actcatcaag 300
aagctgcgca aggcgaaaaa ggatgctcct gctggtgaga agccagagcc agtcaagaca 360
catctccgta acatgatcat tgctcctgag atgattggaa gcattgttgg ggtctacaac 420
ggcaagacgt tcaaccaggt tgaga 445

<210> 15781
<211> 433
<212> DNA
<213> Zea mays
<223> Clone ID: LIB83-003-Q1-E1-D1
<400> 15781

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ctccgtctga tggaggaccc ggacaagcgc gaccagggtc ggcgggagca tgtctacaag 180
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gccggccgtc gggaccccta cgacgacctc atcgacgccc actctggctc gccgccgtct 360
tcctgaacac ccgttccgat ctttgcccag aagggtccact tgggcatcaa taagaaactc 420
tttccctca aac 433

<210> 15782
<211> 419
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB83-003-Q1-E1-D10
<400> 15782

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cagcgtatct cggcggcggt ttctcctcc tctccgccac ctcttccgtc gccgtccgcg 180
ccctccgcg catctccgac gcccaaccaga ggaagtccgc gaagccgtgc ggtgcctgcg 240
aggggaaggc cagctactcg tgcaggctct gcangggcag cgccaccatc gagtgggtctc 300

cgatgcacga cccggtgttc gtgaatccgt gcctctgccc tacctgcgat gggactcggg 360

tgcagcgctg cttgaactgc ctgggaaatg gttacgcttg aagaagcgat gtcagtttc 419

<210> 15783

<211> 237

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-D11

<400> 15783

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tgggggctag cagctcatct cgcgaggct ctgtgccat ctgcgcctcc acgtccatct 180

ccttctccac cctgcgttac gacgtgaact cttccgggt caacttcac aaggagt 237

<210> 15784

<211> 449

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-003-Q1-E1-D2

<400> 15784

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catcgatccg cgcgccctc cccaacgcg cgtgcgtccg caactagcgt ctgccgccgg 180

tgcgtttctt ccgcacccc cgacgcggca aggagcccc ccgccatgag ggtccacccg 240

gccccgcgga agcgcaccat cgccgtgcaa cgctgcgcct ccgcggcggc gggcgcgctc 300

ggcggaaga agctgcgccg cctgccgcac atattcgaca aggtgctgga gctcccgttc 360

gcgcccgacg cggacgtgtc cgtcgaggag gacgcggcgg cgctgcgggt cgtcgccgcc 420

gccgacgagt tctccctcgc gggcgcccc 449

<210> 15785

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-D3

<400> 15785

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gtgggcgagc tgggtgaagtt tgctacagag agggggccgca aagctaggcc taacttgaag 180
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caggtgcttg tctgaggctg cctcctcatt ggcaaccgga ttgcctgctg ctgggtggatg 360
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<210> 15786

<211> 414

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-003-Q1-E1-D4

<400> 15786

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cccaacacga agggagcaac gaacatggag aagtcggcgc angcagcggc ggcggctcgc 120
agaagcggaa gaagaaggag gtcttcatct acggcaacta caggaactac tatggctacc 180
ggattgatcg caatgttggg gaagatcctc gccttgaggg gttcaagaaa cagtggtttg 240
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tgaaatttaa atgtcaaagc attcttggcg ttgatattga ttcaggttta attgagactg 360
ctaagtggaa tctgcgaagg ataatgcggc aggataaggt ggctacaaac aacg 414

<210> 15787

<211> 180

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-D7

<400> 15787

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gctcacgcca catatactat actagccatt tgattctggc cattacaaca taacgactat 120
ttgctctttg gtatgatgct ctatggccat tacaacaaaa cgactgagga tgtttggttc 180

<210> 15788

<211> 403

<212> DNA

<213> Zea mays

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<400> 15788

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tgcagctctc tctccaagc aaccattctt cctctgcatg tctccagca tacaggaagc 120
gtgtcgcgct agccccaggg agaggaaacc gtcttctctg cactgcatct ggcgcctctt 180
cttctgtggt ggtgaccaag gaggcaggagg aaggatctcc tgagcccgaa atcttttagct 240
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gctgcaatgg acaaggccgg atccagggcg gcatagccgc cgtcccgggc ttcggctggt 360
ggcccaatca agcgtaccgg ccgtgccccg gcttcgtcgc gtc 403

<210> 15789

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-E1

<400> 15789

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gcgcacgcgg tgcggcgggc gtggcgggtg gcggacgagt gggcgcaggc gtaccagtac 240
tacgaggtgc cgcgcctcgc cgtcgacggc gcggagaacc cgctgttccg gaaggcggcg 300
gcgtacgtgg cgtcgtcgcc gtcgctcgag gacgcggacg ccgcctgcgt gctgtcgtcg 360
gcggccaaga gcaacgactt cgcgctgc 388

<210> 15790

<211> 57

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-E10

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<210> 15791

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-E11

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tccagttgtg cacataacac aacatcatca ggatgtcttt ggttgattgg aactttctcat 120

ccttgatgca acttttgggc aagcttttat tgcacataaa ttgcctctac ctgttatggc 180

cattagtga aaactggctg ttgtagttgc ttcgtagact gaatatttaa aaagaagcta 240

agatattagt cttcattttt tttccaacga agttacccat gtaggttgga ctgttggtgc 300

tgctggaaat ttcacggta gatgaaaaa aaaaaaaaaa agggcggccg gacgacgcaa 360

gtccctactc ctccaaacc tcgccgactc agatccagct tcctcgcacc gccgtcgcca 420

tgccgt 426

<210> 15792

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-E12

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gggcctatcg aagcatctca caaactgtgt tcaactcaaaa ttgtctttca gccgattcct 180

gcaatttcgg gatccacgtg cccagaggcg acatcccctt gttgatccca tggtcgtttc 240
agagatccgg cgatgcctca acgaggggat tgaattccaa ggcgagctgc taaatttcgg 300
gaaggatggc gctccacttt acaacagatt aagtctcatt ccaatgcacg gggatgaagg 360
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<210> 15793

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-E2

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caaattagtg ctgcaatatc accagatcag aacaaacagg cgttcaagga agtgggtcac 420
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<210> 15794

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-E3

<400> 15794

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gggagctttt cctgctccgc ctttaagcgct cggcgcgcca ggagttcaag aacagcgagt 360
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<210> 15795
 <211> 88
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-003-Q1-E1-E4
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<210> 15796
 <211> 434
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 15796

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 ggtcccaacg acgc 434

<210> 15797
 <211> 406
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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<400> 15797

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gttcaagagg ttcccgcagt acaagtcaca cgatttctac atcgccggcg agagctacgc 360
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<210> 15798

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-E7

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ccg 423

<210> 15799

<211> 458

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-003-Q1-E1-E8

<400> 15799

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<210> 15800

<211> 65

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-E9

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gatgc 65

<210> 15801

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-F1

<400> 15801

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gcctatgaaa tgttaaaaga atatattatg aagagaaaag gagaaaataa gattgaagtt 300
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<210> 15802
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-F10

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 catataccaa aggctcatct aggtagtgtc acaaaggtaa cgaccatccc aaataccagc 180
 ttgttcttaa ccggaagcaa agatggagat gtgaaacttt gggatgctaa aaactcccag 240
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 tggggccttg gcggtgttgt tagagctgct gtaacagatc tccaggtgtt gccaaagggt 360
 tcgtttcatg tggaggtgat ggttctgtga agcttgttca gataaaagat gatctcgctg 420
 cag 423

<210> 15803
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-F11

<400> 15803

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 gagaagccgc cgccgatcgg gcccaagagg ggcgccaagg tgaagatcct taggagggag 180
 tcctactggt acaacgggat cggcaacgtc gtcaccgtcg atcaggatcc caacaccgcg 240
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 gccttgagcg aggtctcaga ggtgaaatga gtggggcccg ccggctcaag ggctccgcgc 360
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 gc 422

<210> 15804

<211> 418
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-003-Q1-E1-F12

 <400> 15804

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tccagtaaac ttttcagggt taagcgcgga ttgatggcag agctgctgta gatttggagc  180
attttggggg tggttttttg cgatttgagg atcgaatcgg gctggtacaa ccgcggtcac  240
gtgcatatat aaggcgaatt ggcggtttgt tggctacaat tgttcggttc ttatcttgaa  300
gggtggtgcg aattggagga ttcttccga aatcaagaaa gtgtaggcca aattcgcaag  360
gaagctgcag ctatccggtg gagaaggctg cctctcacia attctcggtc ggtgccat   418
  
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<210> 15805
 <211> 436
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB83-003-Q1-E1-F2

 <400> 15805

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agtacttctt tctgggcgtg ctggttcaac aatcgttgat ctaataacac caggagttta  180
caagatattg agggatggaa gctcaaggaa ggaaacagca gcagtgtctg gcaagttcgg  240
ctttgttgaa gcgttgtaac tactcggcac tttaagaaag taagcacgat caaagagtgg  300
ctgtcttata cacattatat cttgtttaat tagtgataca ttagagcttt tgttgctgtn  360
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ataacagagt tcacat                                     436
  
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<210> 15806
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-F3

<400> 15806

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catcatgggc aacgcccagt atttcatcca caaggccgcg cacggcaggc cgaagcacat 180
cggaacgat atgtgggacg tcgccatgga gcgccgcgac aagaagctcg tggaacaatc 240
ctccggcaac tagggatttg atcaacctca aacttttctg gatgttgacg aacctccttc 300
aaaagcacag aagtactgct cttttgtttc ctgtacaatt ggaaccaaga cttgtttggt 360
ttgctttgaa atatcaacag ttcggagaat aatctgtatc tgacatctgt ttaattgaac 420
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<210> 15807

<211> 413

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-003-Q1-E1-F4

<400> 15807

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tctgtgaatg ttggtggctt ttggttgaag gatttaatat ctgcttcgca ctctggtttt 180
tgagagttact ttctgcatcg agtgaatcca gttcctgttt acgctggctg tctgagcttg 240
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cagctagtat ataatagatg gttcttggtt gttcatgtac tgtgtagctg tatataatag 360
aaacattgca ggatcagtga gtaattctgt ggccgagtaa agtgcagtgg tgg 413

<210> 15808

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-F5

<400> 15808

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cgccccctcgg ccgcgcgcgc tcctccttcg ccgtcgtctg ctccaagaag aagatcaaga 180
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agggcaaggg caagggcgtg taccagtctg tcgacaagta cggcgcgaaac gtcgacggat 300
acagcccaat ctacaacgag gatgactggc ctcccaccgg cgacgtctac gtcgggtggaa 360
ccactgggct tctgatctgg gccgtcacc tcgtctgggat cctcggcggc ggcgcctcc 420
tcgtct 426

<210> 15809

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-F6

<400> 15809

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ccgccaccaa cgccaggccg gccaaaggaga acggacgcgc gccggctgtg gcggaggtag 180
tggcccagga ggcggccact gacccccggc tgcagggcat ctccgacgcc atccgcgtcg 240
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ccagggtgtt caaggacgcc gtcgacctgt tcgtcgagcg ctaccgcggg atgcgcatcg 360
acgccgtcgc cgggatcgag gccaggggct tcatatttgg cccggcagtc gcattggcta 420
ttggcgccaa g 431

<210> 15810

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-F7

<400> 15810

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 gtgtcgggtgc ggatggcctg ggacgggtccg ctctcgtcgg tgcgcctcat catgcagagc 180
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 gagctcggcc gggggcccaa gacgtcgcgc tgcgagatca ccctcttcac caagcgccat 360
 ggcgtcctgc gcgccgagga ggacgccgag tccacctacg ccagcatcga cctcgccgcc 420
 gccatcgtca agcgca 436

<210> 15811

<211> 202

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-F8

<400> 15811

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 gtgtagatca tgtagagggt ggaggttgct accgatgcag aattcgtgga gatttcttat 180
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<210> 15812

<211> 285

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-F9

<400> 15812

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 tctgaacatg aacagtgcaa gaaccagtgc ataattgatt acaagaaata gtcatacata 180
 gcccaaaact tatctttttt actagacgta tagttgtaaa tgcaactata accatagact 240
 gttataatca cttaatcaga agtttttagca cgtagtattc catcc 285

<210> 15813
 <211> 284
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-003-Q1-E1-G1

 <400> 15813

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 ctaccacaat gagcatacat gtatggataa atcttctgtg aaagcattcg atgaataagg 180
 gttgttttcg tgattcaaaa aaaaaaaaaa aaaaaagaag aaataaaaaa aacaaggaaa 240
 gaaaaaaaaa ggaagagaaa aaaaagaaca gatgaggaca agag 284

<210> 15814
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB83-003-Q1-E1-G10

 <400> 15814

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 gactgcggac agatcctgga gtcgtgccca atctgtcgca ctcccatcac cacaaggata 180
 aaactatact accaagtagt ggtttgatc attgacaatg ggtggtatac tggaggagcc 240
 acccagcgtc acactggagg atcgtgtcag catgtccata gatcgattgc aatcggaaaag 300
 ctggagcggc actccataga tcgatcgatt ggatctaatt attgcangga caaagcatgg 360
 atcaattgga gcgacgattg cagggccggt gattcatcgc tcatggttgt cccagtattc 420
 atatccac 428

<210> 15815
 <211> 407
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-003-Q1-E1-G12

<400> 15815

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cctcaagggc ccgagtgtgg tgaacgagat cttcattgga ctgacctggg gtctgatcgc 180
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ttttcaaaga actctctcga gagcatgaca aagtgattgc ttgctgtgga gatttgcct 360
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<210> 15816

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-G3

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tttaatccaa ttaacttttc ttgatgaagt agcatgaaac tgaatagttc aacagtgaac 180
agtgtaaaag cataggtctt ctcatctgag cttgctggtc aatttgtaca gagactgac 240
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ccacttgat gatttagtta gtgaggccac aggttaagat gagctttgca ctgctcaatg 360
ctcgtaatag ttttgaggaa gaaggatgct cttgcgcagc cagttgatga ttcatttgag 420
cagtgcacaaa tggtgtgt 438

<210> 15817

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-G4

<400> 15817

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 gacgatccgc gacccgcgcg ggttcgccgt gaagttctac acccgcgagg gcaactggga 240
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 gatccacgcg ttcaagccca acccgcggtc gcacgtgcag gagtactggc gcgtgttcga 360
 cttcctgtcg cacctccccg agagcctgca caccttcttc ttctcttcg acgacgtggg 420
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<210> 15818

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-G5

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<210> 15819

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-G6

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aggatgcact caatgtgtac gagcttgccc aacagatgta ttagaaatga taccttggga 360
tggatgtaaa gccaaagcaa ttgcttccgc gccgagaacc gaagattgtg tgggttgtaa 420
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<210> 15820

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-G7

<400> 15820

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aggttttaag aatgggtatt gttctgttct agaaaatgaa ctcaaagcaa ggctaccagg 180
gtgtggtctc agtgctattc cacacattga gtctagagtg aggcatttta ggaccaagta 240
tggttctatt gaggtcatgc ttgctaagag tggttttaat cagatgacga tgcttttcgc 300
gcttcctgag actcttagga gagaattcat cctgaacatg attgcagatg aagctcaaag 360
gaagtgactt gtcaaattat caatgaagaa tgtc 394

<210> 15821

<211> 88

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-G8

<400> 15821

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gaataaatgt gtccttggtt catggaac 88

<210> 15822

<211> 427

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-003-Q1-E1-G9
 <400> 15822

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 gctcctg 427

<210> 15823
 <211> 411
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-003-Q1-E1-H1
 <400> 15823

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<210> 15824
 <211> 225
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-003-Q1-E1-H10

<400> 15824

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aatccccctt tcccaaattg gcttaatacc aaaaaggccc ccaccttttc cctttccaaa 180
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<210> 15825

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-H11

<400> 15825

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<210> 15826

<211> 61

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-H12

<400> 15826

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c 61

<210> 15827

<211> 174

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-H2

<400> 15827

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<210> 15828

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-H3

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gcatggttgt tccaaattgc ctggcttcaa aggcaacttc gtaaagcgac cgtacaatag 240
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gtttgacctg ctaaataagg tgctggcata tgacctgag aagcgcatat ctgctgctga 360
tgccttgaac catgagtggt tccgtgaagt tcctctgccc aagatgaagg aattcatgcc 420
aacttttcct gctctgaatg aaaa 444

<210> 15829

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-H4

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<210> 15830

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-H5

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ccggcagagg cgaagaaaga cccgaacgtc agcggagtgc aggctaaatt gcttgctagc 300
aggaagagga aggaggcaat gaaggaagct gtggccaacc tgaggaaaaa aggtaagccg 360
gttaataatt gaaggccaga accattgacc cttgatcaag aaatgtaact tattgtt 417

<210> 15831

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-H6

<400> 15831

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tatgctaagg ttcgatgaag ctaaagtctg tgtacgagaa ctggactgga aaatggcatg 120
gcctccacct gtgggtacat atgacccttc tgatccaagt cggtatattat ggtctgcaag 180
tgaagttgag gaggctgaga aagcaacagt cctgtttgct gcagatgtta tttacagtga 240
tgatctcaca aatttgttct tcaacacggt gaagaaattg atgtcggtcg gtgctaagaa 300
ggtgctatac ttggccctgg agaagagata caacttcagt gtagacgaac tagatgtcgt 360
ggccaatggt tacacgcact tccgaagttt cttcacagcc caaga 405

<210> 15832
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-H7

<400> 15832

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ggaacttcgg cgtcgagatg gatcaggcgc cggccaatgc gggccggaac gggaacggag 120
cgctcgcgga cgcggagtcg aggaagaagt ccgaggaggc ggagggggac gcgaagcgga 180
aggcggagga ggccgaggcg aggaggaaga aggaggagga ggagagggac gccgagctgg 240
ctgcgtacta ccaggaacag tgggcgaacg aggatgaggg agctgccgac gctgccgcgg 300
ccgagacggc cccgctgtat gaggcgtcgg gactacggtg cgggtgaacc gataaccccg 360
ggtaggggtga gttcgctgct ctcaaccttg ttttgcttca tattccttat tccattcaga 420
tgtactaaca t 431
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<210> 15833
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-H8

<400> 15833

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ggatggcgtc gtcgttcgcc gtggcaacgg tcccgctcgt ggcggccccg gcggccaaga 120
agcggtcggy cggcgtcacg tacgtggagg gcatgaacgc ctacagcggc ctcaaggggc 180
tcaacaaggt gaacatgctc ggggtgcgca agaccgccga ctactccttc gccaaggctg 240
tggcgtcgtc cagccccgcy ggcaggaagc ggcgcggcgg cgcgttcggc gccagatga 300
acgccgccgc cgagatcttc aggatcgccg ccaccatgaa cggcctcgtg ctcgtcggcg 360
tcgcgcgtcg gttcgtgctg ctccgggtgg aggccgccgt 400
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<210> 15834
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-004-Q1-E1-A10

<400> 15834

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gaacataaag tttgtgacgg gtagtaaaag atctatTTTT cttttgactt tgacatagag 120
ttcgatcctc aattatttct cgcgctatct tcttacgaag ttttgttagg gcatctataa 180
cagcctctgg tttaggcggg caaccggca ggtagacgtc cacaggaatt aacttatcaa 240
ctcctcgaac agtactatag gaatctgtac tgaacatgcc ccctgtaata gtacaggctc 300
ccatagcaat gacgtatttc ggttcaggca tttgctcata taatcgact aaagatggag 360
ccattttcat tgttaccgta ccagctgtta aaattaggtc cgcttgt 407

<210> 15835

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E1-A12

<400> 15835

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cgtcgcacat cgcacgctcg ctcgaaattcg ggttggggag gcaactgagtc actgacgtct 120
tcgcgttagg cgggtgccct ttaccggctc ttcattgtaag gtgtagtcaa gctgctggcc 180
acacgcggta cccccctatc cagtacacgg ccttcgccga gatccactac aaggctgtct 240
cgtcaaagat ctgaccacta cgctagtac gacggaatag tgtgtggact aagtgcggga 300
ggattagcga ggagaggccg gtgccgcggc aggagagccc gtggggctctg cctgaggggtg 360
acacacggca ggccaatgct caccgc 386

<210> 15836

<211> 63

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E1-A9

<400> 15836

caagagatgg aacgcgcagg gtggaaaaag caatgtttac tttgcaaaga cactggatga 60

aaa

63

<210> 15837

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E1-B10

<400> 15837

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cagaatcatc agagtcagat tcaagtggat cagaatctgg ttcggaaagc tctagttcag 120
gttccagttc tgagtctgag tcagaatcaa gccctgataa gcgtgacaga aggcgaagta 180
ataagaggaa gaggacttga gagcacttcc aactatgcct tttggaattc atgtatttgg 240
ttttgtttaa atgtgcttct tcagtataca tgtgcagtat gtgatctagc tcttgatgtg 300
ttagtggtaa tcagaaagcc gtaacagtaa gatactatcc gaacttgtag g 351

<210> 15838

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E1-B11

<400> 15838

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cctcttcctc gctttccctc cccccgggc gcaaacccta accctaccgt cgctcgcccc 120
gcggcgtctg ccaatggcgc gccccgtgtg agtgtgcgcg agagaggggt agaccttgag 180
gccgctaccc ggggaggaga gcgagaaatg tataaacagg ggggagccgg gggaagggct 240
ggggctgaac ggaaacggat taacgacgcg ctggataagc aaccgaaaa aggcgtcccc 300
tccccgttca acgtcgaagg gggtcggcgg ccggcg 336

<210> 15839

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E1-B12

<400> 15839

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tgaggctctc aagaaaatga acaagaacaa gaagcttggt aagaggcttg ccaagaagta 120
ccatgctttc ttggcatcag aggccatcat caagcagatt ccccgctctcc ttggctctgg 180
tctcaacaag gcaggcaagt tcccgaccct ggttactcac caggaatccc tcgagtccaa 240
ggatgaacgag actaaggcaa ccgtcaagtt ccagctcaag aaggctcttt gcatgggtgt 300
cgccgctggc aacttggcga tggaggagaa gcagatccag cagaacatcc agatgagcgt 360
caacttcctt gtttcccttc tgaagaagaa ctggcagaat gtgagatgcc tgtacg 416

<210> 15840

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E1-B9

<400> 15840

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ccagccgatc gttccgagat ttgttgatca aagaaccatg gaaggatcgt tccagttgaa 120
tcccaacgcc agtcctttca tacctggatt gctgggttca tctgcacaaa aagccccaga 180
aaaacaagga gggatcatcat caaagggaga gccttctggg agcacctttg atcctttctga 240
gtatgaggaa aatgacatgg atgaacttgc tctagtcaaa atggtctttt caatgttccc 300
aaatgtctcc acggacttca ttgatgagtt aatcaaggca aatgattttg acatgaatct 360
gactgttgat atgctttatg agctgaactc acaagatat 399

<210> 15841

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E1-C10

<400> 15841

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tttgggtgctg aagtcgaagc tagcagcccc tttattcctc gtcgtcaagc cacgccgcgt 120

cgcgacatgc ccgtegatcc cgacgatcta tctcccagat gtgtgccact tgtgttgagc 180
tccaaaaccc ctgtcgagct cttctcctga aagccgcctt cgagcacaat cctgtcatg 240
tggtcgatgg gaattctgaa ccaaggctca tcgtcgttct acgattatca aatcattcgg 300
gtcatggtaa gtcgatgagt tattcagaat agttcaattg ttgaaaaaat taatgtgcta 360
gtgtgatgct cactagttgc tcgataaatt acgcgagtca cggaactctc gt 412

<210> 15842

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E1-C11

<400> 15842

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aggcaccatc actactgggt cagtgtttcc ctggcttgct tcccagcaag gccactagtt 120
gcgtgccaat tgtatctgag aaggatctgc agctaccatc accagctgtt gaaataatcc 180
cctcaaagag tggtcatcca tacaatatg ctggagagaa ggttgatgtg caaggcttta 240
atattttcaa gggtaaagtc agtgtagcag atatgatagt tatctcacct tctgaagtag 300
catcatcaaa atatgatgga actctgaaat actgggagag ttccattacc cttgtcgaca 360
ttcttaaaaa tgagattcgt gatgggc 387

<210> 15843

<211> 312

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-004-Q1-E1-C12

<400> 15843

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tggtctgggat ggcgtcgctg cagggcgcca tggcgtcgct ctccatctcc gcgctaggcg 120
cggcgacggc gagcagcagc agcttctggg gcaaccggct cgccacctac tccgcgccgc 180
agcctgnggt aaggtttatg gtcaagatat gccaattga aatgagactt aagagatggg 240

agcgaaagaa gtgtaaacca aacagtcttc ctgtgctgca caagatgcat gttaggattc 300
 gggacacggg ac 312

<210> 15844

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E1-C9

<400> 15844

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 aggcaacaca tgtcctggaa gcctgagttc agctacgac aaccatggag ggcacatcac 180
 ttccacttct tgaacttgcc gccgccaaac atgccgtgcc cgtgcttgcc atgcttgaac 240
 ttgccgtgcc cgtgcttgaa cttgccgtgg tggccgtgac catgcttgaa cttgccgtgg 300
 ccaccatacc cgtggcgcta accaccgtga ccatagcctc caaaggcccc atgtccaccg 360
 tgtccgctat ggccatgaga aagcttgtgt gctccataag cggcagcggc cgctc 415

<210> 15845

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E1-D11

<400> 15845

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 atcatgatga aggatgagag agttcagtag ctctcattgg tctgcttga gactattggt 180
 aagaactgtg agaaggcctt ctcaagaagt gcggccgaac gggttcttga tgagatggtc 240
 agattgattg atgacctca gaccgtgggt aataacagga acaaggcctt tatgctgac 300
 gaagcatggg gagagtccgg tgatgaactc cgctatctgc cagtctatga ggaaacgtac 360
 aagagcttga aatcaagagt gcggtttcct ggacgtgaca atgagagctt ggctcccata 420
 tttactcccc cacg 434

<210> 15846
 <211> 309
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-004-Q1-E1-D12

<400> 15846

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 gccaccgcag cgcccaccgc gggggctcag aagattgtct cccttttcag caagaagcct 120
 gccagaagc ccaagccgc tcggtatcg tctcttctc cagacatcag cgacgagctc 180
 gccaaagtgt atggtcctga caggaggatc tacctgccg atgggctgtt ggaccggctg 240
 gaggtgccg agtacctcac cggagaggc cctggagact atggctacga cccttttggc 300
 ctgggcaag 309

<210> 15847
 <211> 342
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-004-Q1-E1-D9

<400> 15847

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 ggagcggaag agccgccgc gtggaagcca ggacacggga aagctttgga cgctaccaat 120
 tcagcgaata acctacggg gtgcgtggaa ttgagcaaac cctccgccgc cgaaccacca 180
 tccgctgtga gcagtgcacg ctagegtccg attcctgggc tcggctcacc gccaccggca 240
 tcaagcgccg gcatcgctag ggtttcacgc cccatcccc ccaaggcgcc gtcgattccg 300
 gtcgggcac tcccgtgctg cacgtggtaa ctgacgtta aa 342

<210> 15848
 <211> 385
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-004-Q1-E1-F12

<400> 15848

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ggaccgcgca gctccccgga gccgacaagg acccggcgcc atgggggttct gggaggcttt 120
tcttaactgg ctccgcagcc tcttcttcaa gcaagagatg gagctttcct tgatagggtc 180
ccaaaatgct gggaaaacgt cacttgtgaa ctctattgct actggaggct ttagtgagga 240
tatgatccct actgtaggat tcaatatgag aaaagttacg aaaggaaatg tgacgataaa 300
gttgtgggat cttggaggcc aaccaagatt ccgcagcatg tgggagagat actgccgtgc 360
ggtttctgca attgtgtatg ttgtt 385

<210> 15849

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E1-G10

<400> 15849

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cgcgctctgc ctctgcacca ccatcaaggc caaggcgctc agcgtcagcc tcgtgctccc 120
cgtcgccatc tcggtgctcg ttaacgagtg cggcaagcat gtgccctcca gcttccagtg 180
cccgtaatca catcagctgc atatatgtgc tactatgatg tatcaccacc actaatctat 240
atccgcatgc atgcatcaat gcatgggtga ttaagggttt atacgcggtc aaagttatac 300
acgcatatat atgtagcttc atacatggag ctgtgggttg tgcattcatt ttcaaactcat 360
gtaccagtat tatattgtag tatcataaac cagtgtgaga gttgtggcct tgggtgggggt 420
gcttgtaag 429

<210> 15850

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E1-G12

<400> 15850

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atatcagggtg tgacatacaa gtttggtaga aatgaggtaa agatagtatg tgcttgccat 120

ggcactcaca tgtctccgga ggagttcatg cggcatgcaa gtgcagatgc tccggcccaa 180
gataatagtg caaccctgcc agcattccct gctggtaacc aagccacgtc tgcagaaaat 240
taggttagcg gttcagagaa tgcttgacta ataatccttg cccctcttgt gtctatatca 300
gccattcact gtaatactca gtgttcatct cgtgttaact ttttatcatg caagtttaga 360
ttcttgtatt ttgagctttg tttgaggata aaatctgtgt 400

<210> 15851

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E1-G9

<400> 15851

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gttccgggtg aagaacagct gggacgacat gcttcttcag tacgagacac tggaacagtg 120
cgccaagact ggaaccatgg ttgtccgtg ggtcaggaag tttccgttct tctgcagcga 180
cagggagtac atcataggcc gcaggatatg ggcactctggg aagacgtttt actgtgtgac 240
caagggcgtg cctcgccct ctgttccaag acaaaacaaa cctcgtcgtg tggacttgta 300
ctactcgaac tgggtgcatcc gtccagttga atcaagaaa 339

<210> 15852

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E1-H11

<400> 15852

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agctggccaa gggcacgtg ctgaccacg acacggggta ccaccagctg gtgagccact 120
ggctgcgcac gcactgctgc gtggagccct acatcatcgc cgccaaccgg cagctgagcc 180
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cgctggccag ggaggcgtc atcaacgcc acggcatcat cgaggagtcc ttctggccgg 300
gcaagtacgc cgtcgagctt agctccgtgg cgtacggcgc gacgtggcag ttcgacacgg 360

aggcgctgcc caacgacctc gtcaagcgcg ggctggccgt gcgcggggaa gaccggg 417

<210> 15853

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E1-H9

<400> 15853

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tcttccggca cctggctcgt cgcgtgccgt gccacccgc taaggccagg gcgccccgac 120
ttgagctcac cgcgccgaac tcgaaccgct gctgttctc ggggcagggt cgtcgaggat 180
gccggagcac tcagagaacg cggcggggcg acctgatggg caccatcatg gggaccatcg 240
cggaacacct cccgaggcaa aattctgtgc ggttcgacga gggagagggc tcctccatct 300
ccgaacaggc caagactctg tccggcggcg gagagaccag gaagatctcg gtacaccacg 360
tcctgggc 368

<210> 15854

<211> 165

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-A10

<400> 15854

agatctttta ctaccgtca caaactttat gttcgtaagt tccagtgtga gtactgcgcc 60
gaacataaag tttgtgacg gtagtaaaag atctatcttt cttttgactt tgacatagag 120
ttcgatcctc aattatttct cgcgctatct tcttacgaag ttttg 165

<210> 15855

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-A11

<400> 15855

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gaccatgcac tctgtcactg tgtactcacc actgaccgct actcctgatg ctgacgtagc 120
 actctcaate cgcagcgtac tatctcgcgc gaggttctta cgaagttttg tgatgggtacc 180
 catgatagtc tggggttttag ggcgcgaagc cggaacgtac acttcgacac gaattacctt 240
 agtaagacca cgaacagtac tacaggaatc tgtactgaaa atgccgcgtg taatagtaga 300
 ggctcccata gtaatgacgt atttcgggtc aggcatttgc tcatataatc gcactaaaga 360
 tggagctatt ttcattgtta ccgta 385

<210> 15856

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-A12

<400> 15856

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 cgtctcacat ctcacgctcg ctogaattcg ggttggggag gcactgagtc actgacgtct 120
 tcacgttagg cggtgcccct ttaccgggtc ttcattctaag gtgtaatcaa gctgctggcc 180
 acacgcggta cccccctatc gagtataagg ccttcgccga gatccactac aaggtcgtct 240
 cctcaaagat ctgaccacga cgctagtac gaggggaatag tgtgtggagt aagtggggga 300
 ggattagcga ggagaggccg gtgccgcggc aggagagcct gtaggggtctg cctgagggcg 360
 acacgcggga ggccaatgct c 381

<210> 15857

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-A2

<400> 15857

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 cogggaacca agccaaattt tgtaatggtg tttagggggg aaggtggtgg acaaaaaaac 120
 aaatcttggg gctgctctgc aaataaacgg cctgaccaa aaactttttc ccctccaact 180
 cccttgtaat ggtccttttt ataaaggatc cccatgggaa tgtaatgtaa aaaaaaaaag 240

aaaaaccccc ttcaaaaact gtgtacaaca tttaaaaagt gaaagggcac atcacagtat 300

<210> 15858

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-A3

<400> 15858

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tcggcttggt cacaagactg atcaaaaga tgaacaatca actgatgtgc tgaaggcaat 120

tattagtcct gcaatgcatg aaggagatgt gaagtggcca ccaagagatc cagatacact 180

caaattgatg gagaaagaaa taacacgccg agaacaagaa ggacaacttg atgagggatt 240

tctgtcagaa gttagtgtc agttgaggca agctaaacaa gacggagata agccagggct 300

tcaggctatg ctgcaaaagg tgttgagtt atatgcttct aaatctctcc aaaaacgtag 360

ttatgcatac aaaggggggc aagttgtagt tcccgaaaag tttctcgaat gtgtaataca 420

ggctcctgag aa 432

<210> 15859

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-A4

<400> 15859

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tggaggtggc ccagcgcaag gccaggacgc cgctgtgcga ggtgaaggcg tccgccgcgc 120

tcgcgccgcc gcccatggac ttcgtcggcg cgctgcgcgc cgcgtgccgt cgcaacgccg 180

tccccgcgct cgtcgccgag gtcaagaacg cgtcgcccag cagaggcctc ctcagggacc 240

acttctaccc ggtggagatt gtcgcacct acgataagaa cggcgcgggcg tgcctgagca 300

tcccgaccga cgagaagcac ttctagggga gctttgagac ccta 344

<210> 15860

<211> 263

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-A6

<400> 15860

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ccggtcaccc gtcgctccac gcaaccatgt cgaggaggaa gaccagggag cccaaggagg 120
agaacgtcac ccttggaacc actgtccgtg aaggagagta tgtctttggt gttgctcaca 180
tctttgcatc cttcaatgac accttcattc atatcactga tttgtctggg agggaaactc 240
cggttcggat caccggtggc atg 263

<210> 15861

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-A7

<400> 15861

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tcacgaatgg gtcaagacga cgggcgacgt cgccaccgtt ggcatcacgg accatgctca 120
gggccacctg ggagaggtgg tggtcgtgga gctgccggaa cccggcacga aggtcgccgc 180
gggaggaccc ttcggcaacg tggagagtgt caaggccacc agcgacgtca actccccgat 240
ctccggcgag gtcgtcgagg tcaatgcaa actgtcagag acgcccggcc tgatcaacac 300
gagcccgtag gaggacgggt ggatgatcaa ggtgaagccg agcagcccgg gggaggcgga 360
cgccctgctg gacgcccca agtacaccaa gcactgcgag gaggaagacg ctactagac 420

<210> 15862

<211> 152

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-A8

<400> 15862

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cgccgccacc gtcgcagcgt cactgcacgt tgcgcaaggg ctcgggaaag ccctctgcgc 120

cgggagcaag gcgtcgtcgt gccagggccg tc

152

<210> 15863

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-A9

<400> 15863

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tcagtacttc aagtatttaa tggaatcctt ggcttctggt agcccaacct gcctggccaa 180
aatagtaggg ttatatcagg ttggcgtcaa gagcttgaaa actgggaagg aagtgaggat 240
ggatctgatg gtgatggaaa atgttttctt tgaaaggaag atatctcggg tgtatgacct 300
aaagggttca ttgcgctcac gctacacggc tggggacagc aaagtcctct tggatgcaaa 360
cctcatagag gcattgcata cgaagcctat atttttgggg agcaaggcaa aacgaagatt 420
ggaaagagct gtc 433

<210> 15864

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-B1

<400> 15864

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ctgaagggtg ctctaaattg cattgacaat gtttagagata ctgatgggac cttgcgcgct 120
gtcaaataca agatcgcaaa ccttgtagca agcaacatga gccggaattg gccacaggat 180
ttgtatcaga aggtggcaca gtgcatatga agtggcttgt gttttgagtt gatcaggaat 240
ctggactaat ctgtatcaga actctgaagc tttcaaaca tatggttgct atcccatcct 300
gtgtttaatg tgtgtcaaat gtaagatgtt tattttttaa aaaagaaatt tccactgat 359

<210> 15865

<211> 395

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-004-Q1-E2-B10

<400> 15865

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cagaatcatc agagtcagat tcaagtggat cagaatctgg ttcggaaagc tctagttcag 120
gttccagttc tgagtctgag tcagaatcaa gccctgataa gcgtgacaga aggccaagta 180
ataagaggaa gaggacttga gagcacttcc aactatgcct tttggaattc atgtatttgg 240
ttttgtttaa atgtgcttct tcagtataca tgtgcagtat gtgatctagc tcttgatgtg 300
ttagtggtaa tcagaaagcc gtaacagtaa gatactatcc gaacttgtag gtggcaggtt 360
ggtagtccag caaaanaggg gcaacagaga tcttcc 395
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<210> 15866

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-B11

<400> 15866

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cgggcgcaaa ccctaaccct accgtcgctc gcccgcgggc gtctgccaat ggcgcgcccc 120
gtgtgagtgt gcgcgagaga ggggtagacc ttgaggccgc taccggggga ggagagcgag 180
agatgtataa acagggggga gcggggggag gggctgggct ggaccggaag cggatcaacg 240
acgcgctgga taagcatctc gagaaggcgg tcgcgtcgcc gtccacgtcg agggggctcg 300
cgggcgggcg gcgcgaccac caccgcctcg tcgtgccgct ctccgtgtcg tccatcccca 360
agggccgctg ctccgaaggg gagtctgatt ctgatagtga agcatcgat gttagcggct 420
ctg 423
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<210> 15867

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-B12

<400> 15867

gcttggtgat gccagcatg ttgaggaggc cgagaagatg ggacttgact acatggatgt 60
tgaggctctc aagaaaatga acaagaacaa gaagcttggt aagaggcttg ccaagaagta 120
ccatgctttc ttggcatcag aggccatcat caagcagatt ccccgctctcc ttggctctgg 180
tctcaacaag gcaggcaagt tcccgaacct ggttactcac caggaatccc tcgagtccaa 240
ggtgaacgag actaaggcaa ccgtcaagtt ccagctcaag aaggctcttt gcatgggtgt 300
cgccgtcggc aacttggcga tggaggagaa gcagatccag cagaacatcc agatgagcgt 360
caacttcctt gtttcccttc tgaagaagaa ctggcagaat gtgagatgcc tgtacgtcaa 420
gagcaccatg ggg 433

<210> 15868

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-B2

<400> 15868

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cggcttctct agcgacggag tcgtcctgcg agacagaaac gaaagcgtga gaagcgatat 120
cgtgatcctg gcgacggggg tcagaggaga ccagaagctt agggacatct tcaactgcgaa 180
ctggtgcagg gagatagtgg cagggtcacc ggatacagca gctcctctgt acagagaatg 240
catccatccc cggattcctc agctggctat agtgggttac tccgagagcc tcaccaacat 300
atacgctcg gaaaggatga gcaactgggt agtcaatatt ctggccggcg gcttccagtt 360
gccaagcgtg agatgcatgg agg 383

<210> 15869

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-B4

<400> 15869

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ggaatcactg aagaagtcac gaatgagttg gaaaaatcaa gatgtggagt cctcattggg 120
tctgctatgg gtggcatgaa ggttttcagt gatgcaattg aagctttgag ggtttcatac 180
aagaagatga acccattctg tgtacctttt gcaactacaa acatgggttc tgcgattctt 240
gctatggatc tgggttggat gggcccaaatt tactctatct ctactgcttg tgctactagc 300
aacttctgca ttctgaatgc agctaatacat atcagaaaag gggaagctga tgttatgctt 360
tgtggtggtt ctgatgcaac aatcatccct attggatttg gatgttttgt ggcttgca 418

<210> 15870

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-B6

<400> 15870

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aggtggtggc ccttgcccgc aatttcggc gcctctccgt ggagcacatt gtcccgtcgt 120
atcggaggac ggataaccgg ctgattctcc tggactacga cggcaccgtg atgccggaga 180
actccatcga caggacgccg agcagtgagg tcatctctgt gttgaatcgt ctgtgcgagg 240
acccaagaa cagagtgttc atcgtaagcg gacgggggaa ggacgagctg agcaggtggt 300
tcgccccctg cgagaagttg ggcacgccg cggaacacgg ttacctcaca aggtggagca 360
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<210> 15871

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-B7

<400> 15871

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cacggacttc gacgacaatg tgcggctcag cggcaggaac attggttccc tcaagatgct 180
cacacccagg acgctgaacc tgtacgacat actcgacgca cgcaagctct tctttactcc 240

tgctgctgta gactacctca actccaggta cggagccagt gtttccgatg actactatac 300
 tgatgacgag gatgatggcg aagaggaact ggtcgagcaa gaagcagaag aaggcaccac 360
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<210> 15872
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB83-004-Q1-E2-B8

 <400> 15872

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 cgtcacttgc ccggtcgtcg tccgcctggg catcaccacc ggcttcacat gtggcggttc 180
 gtttgccaag cccactgttt cgctgtgcca aacttcgtag gagccgtagt ctactggcag 240
 cagcactgga gatctctaag gacgggttccg ccgcggttct ggccaacagc ctgccttccc 300
 aaggggctat cgagacgttg cggaatgccg atgcagtgtg tttcgacgtt gatagcaccg 360
 tcctcctgga cgagggcatt gacgagcttg ctgatttctg cggngcgggg aaagctgttg 420
 ctgaatggac tg 432

<210> 15873
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-004-Q1-E2-B9

 <400> 15873

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 ccagccgatc gttccgagat ttgttgatca aagaaccatg gaaggatcgt tccagttgaa 120
 tcccaacgcc agtcctttca tacctggatt gctgggttca tctgcacaaa aagccccaga 180
 aaaacaagga gggatcatcat caaagggaga gccttctggt agcacctttg atccttctga 240
 gtatgaggaa aatgacatgg atgaacttgc tctagtcaaa atggtctttt caatgttccc 300

aaatgtctcc acggacttca ttgatgagtt aatcaaggca aatgattttg acatgaatct 360
gactgttgat atgctttatg agctgaactc acaagatatg gttcatgatg attctgaggt 420
tatcaatcat ttcc 434

<210> 15874

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-C1

<400> 15874

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ccgcgcgcgc gtctccgctc cgccggccgg cctgcgaaac cctagcgagg cgagcgagag 120
agaaactagc ggccatgttc ggctacagga aggctgacct ggacctcgag gccggcgggt 180
cctcgctgct gtacctggga atgacggaga gcccgcagct tcggtgggag ttcgtccgca 240
agatctacgt catcctagcc gtccagctcg ccatgacggc cgcggtctcc gccttcgtcg 300
tcaagggtgc cgccgtctcc aactttctcg tctcctccaa cgccgggggc gcactctaca 360
tcttctcat catcctgctt ttcctcgtgc tgtgcctctc gcgctactac caccagaagc 420
atccggtcaa t 431

<210> 15875

<211> 295

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-004-Q1-E2-C10

<400> 15875

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tttggtgctg aagtcgaagc tagcagcccc ttattcctc gtcgtcaagc cagccgcgt 120
cgcgacatgc ccgtcgatcc cgacgatcta tctccagat gtgtgccact tgtgttgagc 180
tccaaaaccc ctgtcgagct cttctcctga aagccgcctt cgagcacaat ccctgtcatg 240
tgttcgatgg gaagtctgaa ccaatgctca tcgtcgatct acgattatca natca 295

<210> 15876
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-C11

<400> 15876

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gcgtgccaat tgtatctgag aaggatctgc agctaccatc accaactggt gaaataatcc 180
cctcaaagag tgttcatcca tacaaatatg ctggagaaaa agttgatgtg caaggtctta 240
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catcatcaaa atatgatgga actctgaaat actgggagaa ttccattacc cttgtcgaca 360
ttcttaaaaa tgagattcgt gatgggcaat tgagcttcaa gggc 404
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<210> 15877
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-C12

<400> 15877

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ccgccaccgc gaacaacaac aacttccggg gcaaccggct cccaactac tccgcgccgc 180
aacctggggg aaggtttaag gtcaagatat gcccaattga aatgagactt aagagatggg 240
agcgaaagaa gtgtaaacca aacagtcttc ctgtgctgca caagatgcat gttaggatcg 300
gggacacggg acaggttatt gcaggccgtg agaaaagaaa ggttggagaa gtcacacgcc 360
ttttcaagca caacagcacg gtgatcgtga aagacctgaa cttgaa 406
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<210> 15878
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-C3

<400> 15878

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cgccctacgc caggtgcccc gatcatctgc ggccattcg ccggcgacga ccaccatcca 120
tcagaaatag ggtcaagcgc ttgaacttac agcgagatgg aaaatgatag aaggcaactt 180
ggtcagatcg atccaagaag agcccgtttt ccttgctgcg tagtatggac tccaatacca 240
ttcatcactt gggttggtgcc ctttatcggt cacattggca tctgcagaga agacgggtgta 300
attctggact tctctgggtcc acattttgta tcagttgaca attttgcatt cggagctgtt 360
gcgcgctaca ttcaagtaaa ctgcgatgag tgctataagc ttattgaacc tgaaggagat 420
gccacg 426

<210> 15879

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-004-Q1-E2-C4

<400> 15879

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gtttgccgca gcactcattg atcaaccttt atgggttatg aatgctgtgc caattgggtca 180
accagatacc ttgccactta ttttcaacag aggtttgatt ggggcatatc atgactggtg 240
cgaatctttc agcacctacc ctcgtacctg tgatcttctc cacatgagta atctcattgg 300
aaatcttaca aacaggtgtg acctcatcga cgtgggtggt gaaatcgaca gaatactgag 360
acctggaaga tggtttgtgt tgaaagacac gttagagatg atanagaaga tacgcccaat 420
cctgaagtct ctgcac 436

<210> 15880

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-C5

<400> 15880

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ttggggacca agattctccc gatcaacagt gaaggacatg cgcataaata tggcagtatc 120
agcagcattt gttgttttga tagctattat gggcaatgca gactggaagc ctttgcagtt 180
cctttgtttt gctttcttct acagaatact acagaagcta agagctactg aaccaccaat 240
tactccaata tacaatgaat atggtgaggt cgaaggacga gggataagaa tggcaaaaag 300
agttagtccgt gctttgggtt tgatatttgg atgtgtgttc gctgcatccc tgggttatac 360
agcagctatt aacttgatcg agctttcaat gcagtacact ccccgcttg tgtattacta 420
cca 423

<210> 15881

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-C6

<400> 15881

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accatgatgg cgtccttcgc cgccgtggcg gtggccgcgc cctcgcgcgc cggcaccttc 180
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gtggcagcca tcggcggcgc cggcgccgcc atggcgggcc ccaagaacgg gactcccgaa 360
gcgaagaaga agtacgctgc catctgcgtc agcatgccca ccgccaaggt ctgccacacc 420
tgagcacgcc cgcg 434

<210> 15882

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-C7

<400> 15882

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 tgtcgaacct atgaatgagg aatatgggtga gcatatttca ggctatccaa gagacaattc 180
 cgactccaga cccgtacaga tgatgggtga tgggagcgac gataatgatg aggatgctga 240
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 caacggag 428

<210> 15883
 <211> 416
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-004-Q1-E2-C9
 <400> 15883

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 aggcaacaca tgtcctggaa gcctgagttc agctacgac aaccatggag ggcacatcac 180
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 ccaccatacc cgtggccgta accaccgtga ccatagcctc caaaggcccc atgtccaccg 360
 tgtccgctat ggccatgaga aagcttgtgt gtcataag cggcagcggc cgctct 416

<210> 15884
 <211> 437
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-004-Q1-E2-D1
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caacctgatg gacaaggtaa ggccttttg tgagcgcttg aagatcaccg ggacagaagt 180
cagcaaaaag atgactgccg gaatgagctc catgagtttc aagatgaagg agttgttcca 240
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tgactggaac tcaaacttgg agatttgca catgatcaac acagagaagg ttgacagtgt 360
ggaactcacc cgtgggatca agaagaggat catgctgaag gatgccaagg tccagtacct 420
ctccttggtc ctgcttg 437

<210> 15885

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-D10

<400> 15885

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aaagagcaag gcgccggacg aggagcggcc ggcaataata aggagcggca gcagcaggag 180
caggagcagg aggaggtgct gctgggtgcac agccagggtgc ggcggatcag gaaggaggac 240
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ggc 303

<210> 15886

<211> 268

<212> DNA

<213> Zea mays

<223> . Clone ID: LIB83-004-Q1-E2-D11

<400> 15886

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gttcagtacc tctcattggt cctgcttgag actattgtta agaactgtga gaaggccttc 180
tcagaagttt cagccgaacg ggttcctgat gagatggtca cattgattga tgatcctcag 240
accgtggtga ataacaggaa caaggccc 268

<210> 15887
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-D12

<400> 15887

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 ccagaagccc aagcccgcctg cggatatcgtc ctcttctcca gacatcagcg acgagctcgc 180
 caagtgggtat ggtcctgaca ggaggatcta cctgccggat gggctggttg accggtcgga 240
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 gggcaagaag ccagaggact tcgccaagta ccaggcctac gagctgatcc atgccagatg 360
 ggccatgctc ggtgccgctg gcgctgtcat ccagaggcc tgcaacaagt tcggcgctaa 420
 ctgtggccct g 431

<210> 15888
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-D2

<400> 15888

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 ctctagcgag ctccgttctg aagcggcaag aaagatgatt aatcttttca aaataaaggg 180
 tcaaaagaaa gaggaggcag caagtgctgc tggaaaggcc cctgttaaga aacagtctgc 240
 tggggagctc cgtcttcata aagatattag tgagctcaac ctgccgaaga ccacgtcaat 300
 ttcttttccc aatggcaagg atgatctgat gaattttgag accaccatcc gacctgatga 360
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<210> 15889

<211> 265
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-D3

<400> 15889

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tccacctctc taaattttaa gaacactcta gtcacattg tatgaggtgg gctaaattaa 120
aatgcatatg atcagctagg cgctgattgt tctgcgaatg tagtggaaca gtcaactaga 180
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gtatatcatt ccatatttat agtac 265

<210> 15890
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-D4

<400> 15890

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gccgcagccg gtgcctgctc cttcccgatc cccgaggcaa agctgcgact ccgcaaccgc 120
cgccatggcg ttcgagaaga tcaaggtctc caaccaatc gtcgagatgg acggtgatga 180
gatgaccagg gtattctggc agtctatcaa ggacaagctt atcctcccat ttctggacct 240
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tccagatgaa actccggtta aggagttcaa tctgaaacac atgtgg 406

<210> 15891
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-D5

<400> 15891

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 tgaaaattaa gaagacgtaa cgttggtgct gttccaaaga tgacgtaacg ttttaagatga 180
 gcaatgcttc gcctcatgta cagcacactg gtagacattt ttactatttt tcttctcaaa 240
 agagacatta tcatacagtc cggactccgg tgggatttct aatggagggt taatgcttct 300
 tttgactatt tattactggg acgtgtgaac tggggattag cacattgtaa attggtgtgc 360
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 taatggat 428

<210> 15892

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-D8

<400> 15892

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 gctgctcgcg aaggaagaaa acttgaggag gttgttgaag agagatggag ctcattaggc 180
 gacttagctg tttcagtatc agcatcaaga gctgcccatt cacatgctca tttgcatgcc 240
 attagaggca gaaaatctgg taatgctgac aactcagaag aacgtgttaa aagaaatcca 300
 gagggtcagc tggatggtag cagtggcaga cgtgaatatc tacgggatgt ttcttctcag 360
 caccatgcca tgagaaaacc aaaacctgat tctgtcccat ggaaaaagag aagacagaat 420
 atatct 426

<210> 15893

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-004-Q1-E2-D9

<400> 15893

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tcagcgaata acctacgggg gtgctggaa ttgagcaaac,cctccgccgc cgaaccacca 180
 tccgctgtga gcagtgcacg ctagcgtccg attcctgggc tgggtcacc gccaccggca 240
 tcaagcgccg gcatcgctag gggttcacgc ccccatcccc ccagggcgcc gtcgatcccc 300
 gtgggccatc tcccggtgcg cacgtggtaa ctgatcgta atttcacga tcgatcggg 360
 ccatggangg acgcagctcc aagcaggcag gctggggcgt tgtggccgac ctccacgaac 420
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<210> 15894

<211> 427

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-004-Q1-E2-E1

<400> 15894

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 aggaggccga cgtctgcgcg ctgggggct gctcgcgctc ctggcgana gcctgcgacg 180
 ctgactgcat ctgggagcgc ctcttccgct gccgctggcc atctgccgtg gcgtcggcgt 240
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 tatctaattg ggttgaattt gtgggcagca gcttaaataa tgagtcactt gaatccgaat 360
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<210> 15895

<211> 190

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-E11

<400> 15895

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tcgtctccct cacggacgtt ctctccctc cgctcaccac gccggaaccc ggaagaggag 180
agcgtcgtc 190

<210> 15896

<211> 149

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-E2

<400> 15896

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ttttgcttcc aacaaaggct tatttgtcta tataatcatat aacaaagacg ttgaggccat 120
cattgatata tgctgaaac cctcgagat 149

<210> 15897

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-E3

<400> 15897

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cgccgccaat cccacccagc tctaccggtc ccgcgctttg ctgggcaagc cggggaaggg 180
gcttggcctg agcatgggcc gcgagcgcgc ccagcggagc attgtgtgcc aggcggcgag 240
cagcatctcc gccgaccgcg tcccgacat ggagaagcgg aagctgatga acctcctcct 300
cctcggggcc atctcggttc ccacgctcgg catggctcgc cctacggcg ccttcttcgt 360
ccctgccggc tccgggaacg ccggcgggcg gacctacgcg aaggacaagc ctggcaacga 420
catcacg 427

<210> 15898

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-E4

<400> 15898

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gcccgattaa tggaaagcat tcctattggg caggattctg ttgaatcggc atctgctcga 120
gttttgatgg ccgtgctaga gttgcaactt actcgagggc acagtcgtca aaagtggcag 180
cagttgtaca ccggaagtta tgcagcattt aagatgatgg aaatggccaa gaatagggct 240
tgtaccacagg cacaagaacg acttgaggaa acaaaggttc aagcagaaca gggtattgga 300
ctaaagcatc aggtgataga acttcagacg caacaccaag ctgatcagaa tcgcattaag 360
gcgcttgagc atcagctagc taatgctcat tctaactcaa aagttctgag tcagcaacaa 420
gaagaaattc gcttgga 437

<210> 15899

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-E5

<400> 15899

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atctcaacaa ggaaatcctc aggcagaaca attacaatct ggagcagtct gtcgatgacc 120
tatgtggcgt caatgaatgg gatcctctcc ttgcagagct ggaagagatg ggatttgatg 180
acacagagat gaacaaggag ctgcttgcca agaagtaggg aagcatcaag cgagctgtga 240
tgagagctcat tgccagggag aagaaggaca agtgaagatc gtgtgctatc taagtatata 300
ttcgtaaata atgagacggc tgtgccactg cgggtgcagcc ctggtgcgtc tcagagcttg 360
cttatgggtga actcttcgtg ttaggtttct tccgtatatc tgcgtgtca gcagtgtcga 420
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<210> 15900

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-E6

<400> 15900

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 aggaagtgct cggccacaaa caggatcatc actgccaaagg accatgcctc tgtccagatc 180
 aacattggcc acttggaatgc gaatggcctg tatgatggtc acttcacaac gtttgctctc 240
 tctgggtttg tccgtgctca gggcgacgca gacagctcct tggacaggct gtggcagaag 300
 aagaaggctg atatcaagca gtagatttta catctagttt accaagaatt ggacactgcc 360
 ttagctatgt tttgaattca tgtcactata tgcaattgca gtgttgatgat ttcagctggg 420
 accttaaata tgaag 435

<210> 15901

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-E7

<400> 15901

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 ctgctgcaat tactgagaat gatattgttg ctgctgctgt gttgtctgga aacagaaatt 180
 ttgaaggacg tgtgcatcct ttaaccagag caaattacct tgcttcccct ccttttagttg 240
 tggcttatgc attggctggc acagttaata ttgattttga gaaagaacct attggcatct 300
 cgaaagatgg aaaagaggtt tacttccggg atgtttggcc atccacagaa gagatagccg 360
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<210> 15902

<211> 434

<212> DNA

<213> Zea mays

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<400> 15902

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ccatggatgtt taaccatgaa gtgcaagtcc ttatgggtgat caagagcctc ctcaaggacc 180
cctatggcgc gctgagaaac tgggacagga actccgtcga tccctgtacc tggtccttca 240
tctcctgctc gccggagaat ctcgtcactg cactggaagc tccaagcaag aacctttccg 300
gccggctctc cccgagcata gggaacctga caaaacttga gaagcttcag ctgcagaaca 360
acaacataat tgggccaatc ccagcagaga tcggcaagtt agcaaagctc aagacgctgg 420
ttctgtccag taac 434

<210> 15903
<211> 439
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB83-004-Q1-E2-F1
<400> 15903

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cgcaaacctc aactccgagg cagggcttaa aaagcttgat gagtaccttc tcaactgcag 180
ctacatcact ggctaccaag cttccaagga tgacttggct gtctacactt cgttttcggc 240
tgctccctcg tccaagtata tcaacgtagc aagggtggtt aaccacattg atgcgctcgt 300
gaggctgagc ggaattactg cagagggcca aggtgtgaag gttgaatcct cagcagttcc 360
ttcagcccca actccagatg ttgctgaagc acaggcccca gttgctgang aggacgacga 420
cgatgatgtt gaccttttt 439

<210> 15904
<211> 107
<212> DNA
<213> Zea mays
<223> Clone ID: LIB83-004-Q1-E2-F11
<400> 15904

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tgcaagagag ataggggacc ggagggcggc tggccggtgc tcaatac 107

<210> 15905
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-F12

<400> 15905

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ttaactggct ccgcagcctc ttcttcaagc aagagatgga gctttccttg atagggctcc 180
aaaatgctgg gaaaacgtca cttgtgaact ctattgctac tggaggcttt agtgaggata 240
tgatccctac tgtaggattc aatatgagaa aagttacgaa aggaaatgtg acgataaagt 300
tgtgggatct tggaggccaa ccaagattcc gcagcatgtg ggagagatac tgccgtgcgg 360
tttctgcaat tgtgtatgtt gttgacgcgg cagatcgaga aaacatggcc attgcaaagg 420
gggaactcca atgact 436
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<210> 15906
 <211> 382
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-F2

<400> 15906

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aatccgaagg gacgttgagg ctttctgggt gggaagccta catatcattt ctctaattcg 180
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gttgaaggaa ccggccttgt tgtgtgctcc acccaatcga ggaaaagggg caaggattgc 300
tgctttgttg ctttggatc cgttacgcca ttggggattc aaccatcagc agggcgaagt 360
gacggttctg caccactttt cc 382
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 <211> 406
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB83-004-Q1-E2-F4

<400> 15907

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ggaaggggtt acaactacgc caccgcgctg gagggcgccc tgaagggtcaa ggaggtggcg 180
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gacgagaacc tccccatcat tgtcattgcg accgcgcacg cgtgcttcag caagcagcag 300
tcggtgatcc aacagctcct ctgcgcgaag gggcgccctga tagtgatgtg ctctangggg 360
gatgccgcgg ctgtgtgccc tagcgggtggg tcgttcaaag tcattg 406

<210> 15908
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-F5

<400> 15908

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ctcggaaaaa ctcttctct tgaagcctcc tggacaagtg ggaaaataag ttgctttctt 180
cctggagatt actttgcagc atcatctgga tgcattgctg ctgaatttcg cagctgggggt 240
ttttaccggg aatgaaacca acgtttttgt atagacatgt catcagccat aatttatccg 300
gtcaattggt gtttcagatt cgatataaat ggcagacacc actcgggtcc attaagtgcc 360
gtatctgaga atctgt 376

<210> 15909
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-F6

<400> 15909

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 caatgagagt ttctcagcag accacctatc ttcttcacca caaagcagta agcgaagggt 180
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<210> 15910

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-F8

<400> 15910

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 aagatgaaca aggagaccac cgcagagctg gaggccaagc tggacgaggg acgcagccgt 240
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 aaggcgctcg acgcccacat cgctcgcctc agtgatgaga tcctcaggaa tgtgctcaca 360
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 at 422

<210> 15911

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-G1

<400> 15911

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<210> 15912

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-G10

<400> 15912

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atgtgccctc cagcttccag tgcccgtaat cacatcagct gcataatatgt gctactatga 180
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tgtgcattca ttttcaaata atgtaccagt attatattgt agtatcataa accagtgtga 360
gagttgtggc cttgggtggg gtgcttgtaa gtcattcata agtaaaacca tgaataaaac 420
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<210> 15913

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-G11

<400> 15913

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gctgggcgca ggcgacggcg ggctcgtctt cgagcccagc cagttcaccg tcaaggcccg 180
 cgacaccatc accttcagga acaacgcctg cgtcccgcac atcgtcgtgt tcgatgaaga 240
 cgaggtgccg agcggc 256

<210> 15914
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-004-Q1-E2-G12
 <400> 15914

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 ggcaactcaca tgtctccgga ggagttcatg cggcatgcaa gtgcagatgc tccggcccaa 180
 gataatagtg caaccctgcc agcattccct gctggtaacc aagccacgtc tgcagaaaat 240
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 gccattcact gtaataactca gtgttcatct cgtgttaact ttttatcatg caagtttaga 360
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 catggact 428

<210> 15915
 <211> 378
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-004-Q1-E2-G2
 <400> 15915

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 tgccatcaa gacgcacga gacgacgcag agtcaaagcg aggtgaagat tgagtttggg 180
 aaaccacaac tagggctaca ctacacctac tactaaagca tgaatgataa agaaggtaaa 240
 cggattgggt cgatcggaat gtgtacatgg gtactcaatc ggctgtaccc ctttatatta 300
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gataatcatg tgtgggat

378

<210> 15916

<211> 196

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-G3

<400> 15916

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caccttgtaa cgtgtgcatg ttttgaataa gctttgtgtc aaggaccata gccttcatgt 120

aatttttttt ttgttggacc accttctagg tggtgccgtt tgtatcataa acataacttg 180

aagttagcg cagcag 196

<210> 15917

<211> 412

<212> DNA

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<223> Clone ID: LIB83-004-Q1-E2-G4

<400> 15917

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gcagtttggg cagcgccttg ccgccattgg acagtatctg gaacagaagt ttggaagtgc 120

ccaagatgtg gaaggttgcc tggttggccc cgatatatct atagttcaga gcaggccaca 180

accacaataa acaaaaagt ttgtgtggtt acctggctag ctgaataaaa atggatactg 240

gctgaagaaa tatatggact tcgtagcacg cgtaggagtg atcgagtctt ttttaatatg 300

ctatctcagg taaaataata atttattggc acaggtttag ccattcacta acttgatca 360

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<210> 15918

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-G5

<400> 15918

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atgggtacac taggctacag ttcattctgt ttgccactat ctgacatgcc aattgctccc 120
tatectattg gcttctctgt tgccacattg gctccatctt cgtcttcccc agaatatatt 180
tcaactaaag atccatctat aaatcatgta gtatcaccag tggcaggacc cgcgcctgtt 240
ggagcaatct tgccaaaagg ggtattccat catgatacca ttatgcaaac tcagactcct 300
acaagtgcgc gcagttcgag ccctgggtgg gggcgtgat tttattgagc tgggtgggagt 360
gatcctctca tcataaattt tctatcactt gacacagttc tgataggcct ctccaatgtg 420
aataagctgt ggt 433

<210> 15919

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-G6

<400> 15919

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cagctttatc acatcacttc caaaatagct ttttcagttt tgaggttctt ccagggatga 120
tgggtttcct cgcgtacaag gctgcagctt tgggttcaagt ctacagagac aacgaggacc 180
tccgcttgat acttctgat gaagaggccg ctgacagtga cagcacttga tttatacgaa 240
ttagagatta tgtaaccta gtggttggtt acaaatacaa aacagatctg ttcaccaccg 300
agtcaagctt cacttttgaa cttttttttg tctttaagag attctgaaat tcgtttgctt 360
atcttcttgg gaggggggaa ac 382

<210> 15920

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-G7

<400> 15920

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atcgtgtatt agacttacgg gcacctgtta ttgtaaaggt tttgaaagga atgtgcatca 180
 tggatgctca gatcttcaga aggcacctga aagagttcta tccattaatt accaaactta 240
 tctgttgtga tcagatggat gttcgtggag cccttgggtga tctctttagc aaacagetta 300
 ctccactcat gccctgaagt ctggcagtat ttctctcctt gcatagatct tggttgaaca 360
 tattcttcgt cagcattttt gtgcaaacat ggagcacggg ttgggtgctt gacatc 416

<210> 15921
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-G9

<400> 15921

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 ccggtgggtc aggaagtttc cgttcttctg cagcgacagg gagtacatca taggccgcag 180
 gatatgggca tctgggaaga cgttttactg tgtgaccaag ggcggtgcctc gtccctctgt 240
 tccaagacaa aacaaacctc gtcgtgtgga cttgtactac tcgagctggg gcatccgtcc 300
 agttgaatca agaaaaggcg acggtgcaat gactgcatgt gaggtgctct tattccacca 360
 tgaagatatg gggattccat gggagattgc gaagctcggg gtccggcagg ggat 414

<210> 15922
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-H1

<400> 15922

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 ctgcgcctct gtgtcaatct gcctgaagat ggctgctcc gtttttgtgt ttttatcaat 180
 ggatttgagc agcgtcttta tcagaagctc aagggtactg agcttgcttg cagggtccagc 240
 ttccatgtga catttggatc agaaacaatg aaaaaccttg atctgctgaa aattgactgc 300

tgcaagtgggt ggtagatca gctttctggc ctgcttcac tatctgaact caaggaagtc 360
 tggctgaagg gctcctacga ggatacactg aagcatgggc tggaggaaca gcttgacagcc 420
 cacccaaaca atc 433

<210> 15923
 <211> 231
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-004-Q1-E2-H10
 <400> 15923

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 gtctcgaatg atggcttcca tgagaactga agcggagaag aaccctggaa gcgtgttggt 120
 cggcattctc gctcaagggc tgcattggat gtggtacgtg gtcgcagtgg ccgcgaggca 180
 ggggctcggc actgacgacg actctgggtt gctgtgagag cagtagcatg a 231

<210> 15924
 <211> 418
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-004-Q1-E2-H11
 <400> 15924

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 agctggccaa ggcgacgtg ctgacccacg acacggggta ccaccagctg gtgagccact 120
 ggctgcgcac gcaactgtgc gtggagccct acatcatcgc cgccaaccgg cagctgagcc 180
 ggctgcaccc ggtgtaccgc ctgctgcacc cgcacttccg ctacaccatg gagatcaacg 240
 cgctggccag ggaggcgtc atcaacgccg acggcatcat cgaggagtcc ttctggccgg 300
 gcaagtacgc cgtcgagctt agctccgtgg cgtacggcgc gacgtggcag ttcgacacgg 360
 aggcgctgcc caacgacctc gtcaagcgcg ggctggcccg tccgcgggga agacgggg 418

<210> 15925
 <211> 248
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-H12

<400> 15925

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cggcgccttg tcgactctag cccgcttcag ggccgatcga cagcgagagc gagagtgagc 120
gcagcggcgc gccaaaggaga gctctttcgg tgctgtataa tgacgacgac agtacgcggc 180
agatagcaca taacggcgcg cgatgtgcga cacggcggt gtcgctgctc cgccgtatat 240
gggcgttt 248

<210> 15926

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-H3

<400> 15926

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cgcgcagtcc ttctctctcg ccgccactgc cgccgccagg tccccgcgg tcttcgccgc 120
tcctattct tcggaaggcc ctttcaattc ggtcaacttc gtcgccggcc ctggggcgc 180
ggccgcggca agggcgctcg tcgtcccgga cgccactagg aaggccgtac ccgtctcag 240
gggcgcgtct gaggtcgagg gcgtygtcac gtcacccag gacgactagg gccctaaaag 300
gtgtgaa 307

<210> 15927

<211> 434

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-004-Q1-E2-H4

<400> 15927

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catctcattc acctacagga gcatttattc caagaaagcc atgactgaca tggatagcac 120
caacgtgtat gttacattt caataattgc tctcattgtt tgcattccgc ctgcagtgat 180
ctttgaaggg ccccggtctaa tgcagcatgg attcagtgat gccattgcaa aagtaggctt 240

gacaaagttt gttagtgacc tattcttggg tggactgttc taccatctgt acaaccagat 300
 tgctacgaac accttggagc gagtggctcc tctgacacat gctgtgggca atgtgttgaa 360
 gcgtgtgttt gtcattggct tctcaatcgt tgtttttggc aacanaatta gcacacaaac 420
 tggaattggc acgt 434

<210> 15928

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-H5

<400> 15928

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 ctgcctgcag cctcctgctc atcgaccctt tcgccccaca agctcgattc ctcgctcggc 120
 catggctgca cccgcggagg agacgcttgc cgccgaggat acggcgtcgc caccgccgcc 180
 ggcgaggctc gcgggggttct ggttccttgg cgaggataag tctgtccaaa aggctctcgg 240
 cgggggtaaa actgctgatg tacttttggtg gaaagacaga aagactccgg cggcggtatt 300
 tgggtgggcaa ctggtccaag ggggtccgttc caaattgggtg aataacaacc cctgaacctg 360
 gtttcccaag ttccggttgc tggaacgaac aacctggt 398

<210> 15929

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-H6

<400> 15929

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 atcaggcgct ttggtacaat tgaagcatgg acaggttacc tgtggtggtg aacttgctgt 120
 cctctttgtt gacatcctca tcacaggaga gtttccatat agtgaacaat tttttgatcg 180
 catcagaaag atatatgagg cattcccaag gataactgtt ccacatttcc ttggagagga 240
 ctatgatgat gagggacata aattgtctga agctatttct gctgccaaag tgcgcgcaga 300
 gagttgttca tcattcctga aagctgccat cagggtggtc gctgagtttg ggacatcaag 360

aaatggttct cctgaactgc acgttatgtt agcagaatac atatattcag aatctccaga 420
gacggacatg a 431

<210> 15930
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-H7

<400> 15930

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cctctttctgc cacaaagcat ttccatatca ctttgaggat aaaaacgatg atgactggat 120
cacgaggtaa ttcttcactg gaggaacaat gccaaactgca aacctacttc aaaactttca 180
gggaggatgt accggtggta aatcattggc ttgccattgg aaccattag gctaaaaacta 240
ccaaggattg gcaaaaaacgt atggccaaaa ccatcatttc attagggctg atttccaagg 300
aaacttatgg aaagg 315

<210> 15931
<211> 401
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB83-004-Q1-E2-H8

<400> 15931

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agcaaaagga aagccatcca agttgcataa aaggaaacat cagattgggtt ctctgtactt 120
tgacatgaag tcaaaggaga tggagcttgc ggagaggcgt tctaagggca ttcttacgaa 180
agcagaaaact caagcaaaat atggctgggtg agganggatg taaaagaact caagatacat 240
gtgtggggagc tgtagaattg agatgctgta atttttgttg cacattttgt tgtaagagtt 300
acggacttcg taagttcaat cctgaacaaa tagttcaata atgagtcaat atttttaaac 360
ttgtgttacc cattaagaat cacgctcaca ttcaattgat g 401

<210> 15932

<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-H9

<400> 15932

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tcctccggca cctgggtccgt cgcgtgccgt gccacccgc taaggccagg gcgccccgac 120
ttgagctcac cgcgccgaac tcgaaccgct gctgttcctc ggggcagggt cgtcgaggat 180
gccggagcac tcagagaacg cggcgggcga cctgatgggc aacatcatgg agaccatcgc 240
ggagaacctc ccgaggcaga agtccgtgcg gttcgacgac ggcgacggct cctccatctc 300
cgaacaggcc aagaagctgt tcggcgggcg cgagagcagg aagaagtcgg tacaccacgt 360
gctgggcggc gggaaatccg ccg 383

<210> 15933
<211> 183
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-A1

<400> 15933

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cggagaagaa gaagaccccg gtggcgctga tgcccatcgc gaagcctctc gctggaaaga 120
agctctgcaa gcggaccctc aagctcgtgc gacgagcctc tgagggcaaa tgcctcaagc 180
gcg 183

<210> 15934
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-A10

<400> 15934

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ttcagcaaga ggaagaggct atttgattgt tccggacatc tggttcggac ttggagagtc 120

ttctctgtat agcaaggtag tgcaccatt gttctgctga ctaattgggg gttgaatgca 180
aagtctgaag ccgcatgtca tggttcgaga tccaattttg ttttgataga catactgtga 240
aattcattgt gcggttaaag ctatatgaag acaaaatggg gggatggaat gcaacctgta 300
cataccattc tttgctgggt ggggcaggcg atgtacgaac attcatatgc agcagtgtta 360
ctgctcgaat ctggagttaa acatgggcag taatgctagg catttatcaa act 413

<210> 15935

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-A2

<400> 15935

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ccctcctgct ggtcgcagcc aactgctcg cgcaggccgc ggctgcccc tactgccccga 120
cgccgaagcc gccgcgcct cgcgcgcct cgtcgtcgtc cacgccgtgc cctccccgc 180
cctactcgcc gtcgcggtcc acgccagcg gtaagtgcc cgtgaacacg ctcaagctgc 240
tcgctgcgt ggacgcgtc aacggcctcg tgcacgccgt catcgggacc aaggccagcg 300
acacctgctg cccgtgctc tccggcgtgg ccgacctga cgcgcgctc tgctctgca 360
ccaccatcaa ggccaaggcg ctacgcgtca gctcgtgct cccggttcgc atct 414

<210> 15936

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-A3

<400> 15936

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ggaagctatg cattctaaag ggtgtctttc cacgtcagcc aaagaagaag gtggaaggga 120
accacaagac ctactaccac acaaaggata ttgcattcct cgctcatgac cctttgatcg 180
agaagttag ggagattaag gtccatcgaa ggaagggtta aaaggctgtt gctaagaaaa 240
acagggatct tgcagacagg ctgttgaatc ggccaccaac ttacaagctt gataggcttg 300

tccttgaaag gtatccaaca ttcgttgatg ctcttcgtga cttggatgac tgccttaca 360
 tggatgcatt gtttgcgcga ttacctgctg ttgacggtga a 401

<210> 15937

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-A4

<400> 15937

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 agttccagaa acttgctaca gccatggtgg caaacaaga ggtcccgaca aattttcagc 120
 cccagacat gttggacaag caaataggac tcctcccagg cgttggtggtc gactccacac 180
 ctctgggggt ggagttcgga gatgtcagct cagacgtccc cgcaagctca actttcagga 240
 agggcagtg cgtgaacgct acattctact cggcgtgccc gaggaatgac cttctcacgg 300
 acggcacggt cgcgctcgtt gagaagctgg acggcagcaa cagctgggtt cctgcctacg 360
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<210> 15938

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-A8

<400> 15938

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 acaccaccac ctctctctca catccctctc tcttctctta tcgcggcacc gcaaacccta 120
 gccccgggt tctctcttg ccttctctc tcctggcgt gtctctccgc tcccgggcca 180
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 gggagggaac ggaattccg ttgccatcgt cgattgggga tgatggggag cagctcgac 300
 ccaagcagaa gatcagaatc aagctgcgtt cctactgggt gccgttgata gaggactcat 360
 gcaagaagat aattgaagct gccaaaaca ccaacgcata ggaccatggg tcctgttctt 420
 cctgcccact 430

<210> 15939
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-A9

<400> 15939

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ttcttttgatt gtacatgaga ggacccgttt ctgctgccaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ggggggcccc 240
ccaaaaggat aaaaattaaa ttacccttga aggaaactta aaacccttc aaaagggcaa 300
ccaaaattaa attcacgggc cgtcttttaa aaacttctta acgggaaaaa ccctggggta 360
accaaattaa acccccttga aaaaaaaccc cctttccc 398

<210> 15940
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-B1

<400> 15940

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tctcacagcc accgtgatcc cgaagccaga cggggccgac gacgagtcgg tggagatccg 180
ggaggtgtgg gcggacaacc tggaggagga gtctgcgctg atccgcgaca tcgtcgacga 240
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cttcgcgtcg cccgcgcact acaactacgc gaccctcaag gccaacgtca acatgctggc 360
actcatccag ctcggcctca 380

<210> 15941
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-B10

<400> 15941

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tggtggctgc ccggtgacgg tatacgggtga tggtctaata gtactcaatt ggtcttgag 180
ttcatgctac ggctcctctg ttatatatta cagggctgac ggctcctcct tattaatgtg 240
tactttgatg atgtcattaa taatatgaat ctgatgatat tgaat 285

<210> 15942

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-B12

<400> 15942

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cagggatggc gtcgttcgcc gtggcaacgg ccccgctcgt agcggccccc gcagccaaga 120
ggaggcccg cgcgggcgtc acgtacgtgg agggcatgaa cgcttacagc ggcctcaagg 180
ggctcaacaa ggtgaccatg ctcggggtgc gcaagaccgc cgactactcc ttcgccaagg 240
tcgtggcgtc gctcagcccc gcgggcagga agcggcgcgg cggggcggtc ggcgccaga 300
tgaatgccgc cgccgagatc ttcaggatcg ccgccaccat gagcggcctc gtgctcgtcg 360
gcgtcgccgt cggcttcgtg ctgctccggg tggaggccgc cgt 403

<210> 15943

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-B4

<400> 15943

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gaagctaata aggatttagt ggaggagaaa aacagtaagc ttcagtctga gattctcaca 120
gcacaggaga aatatagaca gtctgaagca gaggttaagt gcattaaaca agtaatgtgt 180

tcagtgggtgg aggcgaagga ggcagctgca agggcatctg aagctgagaa ggcagaaatc 240
atggaggaaa tggacaacct taagaggaca atcgaggaga tcaaggccaa cagggatttg 300
gtagagagtc agaaccagga gcttcgggtca aagatttcga gtgcagagca agaacgtagc 360
cta 363

<210> 15944

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-B5

<400> 15944

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agactacagc attaccgctg atgaggctca ctatgcctgc atcgttgact gttttggcag 120
agcaggtcag ctccaacggg cttatgagtt catcagagga atgccggtgg ttccaaatgc 180
ttgtgtgtgg ggtgccctac ttagcagttg caggatacac ggaaatatag gcctagcaga 240
aattgccgcg aagaagctcg ttgagctgga cctcagcat tctggatact ggatgctgct 300
aaaggatatg tactcaaaag ccaagagatg gaatgatgta tcgcaacttc gagctgctat 360
gagagataat ggcgtta 377

<210> 15945

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-B7

<400> 15945

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tcctggcatt agctctgctc tcttcgagcg cggaggagag gagcgccggg cgcgctgcca 120
ctgtcagcgc gatgggctca gatcacgac agacgtcggg agctccggtg ccgccgttga 180
ggcctcttgg ctcgaggaaa ccggtggcgg ctccgccacc gccgaggccg gcacatccac 240
gggcgagtat aaggccattt cctccacctc gtccgtcaca gccgcagccg cagccgcagc 300
cgccgccggc aacaccacgc tcgtaggtgt aggtgtgtga cgtctaggca gccgggaagc 360

tctagccctc taggtctaca gacgtgagaa aatggtttg 399

<210> 15946
<211> 425
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB83-005-Q1-E1-B8

<400> 15946

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ccctattttg gggccatggg cagcaacact ggtggtgcca gtggtggctt ctaccagccc 180
ttcaacagca acttagctgg tgcaggggct agcactggca tccaaaactt tccagggtgta 240
eggctgcgag gtctcccttt tgattgcaat gacattgata tctgcaagtt ctttgtggga 300
ctggacatag tggactgcct cctgggttaac aagaatggtc gcttactgg tgaggctttt 360
gtggtcttcn caacagctat gcaaacagaa tttgctctgc atcgtaacag gcagaacatg 420
ggccg 425

<210> 15947
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-B9

<400> 15947

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ttccttggtc tggtgaccgc acccatagat tctcttacct caccatggcc aagtcactctg 180
gagcagttgt gcatctgggg ccatgccacc gtggtctggc gctacggaca gctccacgc 240
cggccgagcg actcaagctt tctccggccg tcttcacgcg agcaccaaag tcttgccatg 300
gcctttaact actaccgaag cacttggtgt gggctctgctg cagctaataa gaacaatgaa 360
gaaattgaag catgtgctgt tttggttgca acat 394

<210> 15948
 <211> 263
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-005-Q1-E1-C1

 <400> 15948

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 acggcgaaac gctccaattg caggagcgtc tcgtcgcgga ccgcaaagcc ggccgcgtct 180
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 aagcggaaac ggaactgctc gcg 263

<210> 15949
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-005-Q1-E1-C10

 <400> 15949

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 cagacattcg tgggttggtg aacacgttgc cgcagttcag tgggtcagga gggatgttcc 180
 tctcctactg catggtgttt gggatgtccc tcatgcccaa acctgattgg aggctcatgc 240
 ttggagttct gtcgatcccg tcaattattt actttggact gactgtcttc tacttgcttg 300
 aatcaccaag gtggcttgtg agcaaaggaa ggatggctga ggcaagaga gtgttgcaaa 360
 ggctgcgggg aagagaagat gtctcagggg agatggctct tctagttgaa 410

<210> 15950
 <211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-005-Q1-E1-C11

 <400> 15950

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gcgcccagga gcctgagcac catcgccgag gacgacaggg agatgctggc gccgtgcggg 120
 tcaccgtcgg accacggcca cgtacataca cataactaga gcgagtagag ataccgtctc 180
 ttactgtgtg tgtgtgtgtg tgtttatcaa ctctcgatg catggcgaag gcgcaggcgc 240
 aggtggcggc gaggttcacg acggaggtgg cgccgccga ggtggtgtcg gtcatgcgac 300
 gaaggaaggg gccgaggagc ctggacacca tcgccagga cgacaggag cagcagctgg 360
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<210> 15951

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-C12

<400> 15951

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 aatgctctat gcagccaaac aaagtagaca aaagcaatac ccaagatagc atatatggtg 120
 ctaatttctc ttgcaaaatt tctccatggc ttgctacagg ttgcctctct ccacggttca 180
 tgtatgagga gttgaagaag catgtacta aagcaattcc ttttgggtca acaccaaga 240
 ataatgatgg cacatctgat gctggaacaa attggttaat gtttgagttg ctgtggagag 300
 atttcttcag gttcatcaca aagaagtaca gctctgtaca gaagacatct gaagttgcc 360
 ctggctgcac tcccgcccca gcgcttgcac gaacttactt agacaagctg a 411

<210> 15952

<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-005-Q1-E1-C2

<400> 15952

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 ggcggcaaca tcaccctgtt ccgggggctc ctgtactggg tggcgcagct gctgggggtcc 120
 accgtggcgt gcttcctgct ccgcttctcg acggggcggc aggccacggg caccttcggg 180

dtgacgggcg tgtcgggtgtg ggagggcgctg gtgctggaga tcgtgatgac cttcgggctg 240
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 cccattgcc a tcggcttcat cgtggggggcc aacatcctgg tgggcggcgc cttcgacggc 360
 gcgtccatga accccgcgct gtccttcggc cccgccctcg tcacctggga gtggggctac 420
 cagtgggtgt ac 432

<210> 15953
 <211> 328
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-C3

<400> 15953

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 tcacccaaaa atatacaaaa tctataaatt tagttaagat ttcaatacat ttacatatgc 180
 atctttataa taaattctta tgcacgtata aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaacaaaa aagacgaaaa caataaaaaa aaggcaagcc tggcgagcaa 300
 acaaaaaaaaa aaaggggggc ccccccaa 328

<210> 15954
 <211> 356
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-C4

<400> 15954

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 cttatcttca aaggaactgg acttgagtgg ccttggagtg accagtgtac cagctgccgc 120
 gtgggagaca agtgatgtgg tgaaactgga tctttctaaa aattcaatag aagatctacc 180
 aaatgagttg tcattatgct catcacttca atccttagtt ttgtctaata acaagataaa 240
 aaggtggcct cacacagtgg tttcctccct tccctgtctg tcttccttaa agctggacaa 300
 taacccttg gtagagatat catccactga tcttgtgcct ctgtccaaac ttgaag 356

<210> 15955
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-C5

<400> 15955

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ggcaacaatg cttggtgttt tgaccacaga tgctcaagtc agcagtgatg tctggagaga 120
aatgatccgg atgtcagtga gtagaagttt caaccaaatt acagtggatg gtgatactag 180
taccaatgac tgtgtttattg ctatggcaag tgggttgtct ggtttatctg gaattcaaag 240
tcttgatagc attgaggctc aacagttcca agcatgccta gatgcagtaa tgcaaagtct 300
tgcaaaatcc atagcatggg atggtgaggg tgcaacatgc ctaattgagg gtactgtaag 360
tggcgccaac aacg 374

<210> 15956
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-C6

<400> 15956

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cggcgcggtg ctgggcgggc agctgttctc ggccatggtg gtgcgcaagc cggcgcacct 120
gttctctggac gagctgggag tggcgtaga cgaggccgag gactacgtgg tcatcaagca 180
cgccgcgctc ttcacgtcca cggtcatgag cctgctcctg gcgcgcccc aagtgaagct 240
gttcaacgcc gtggccgtg aggacctcat cgtcagggga gggcgcgctc gggcgctcgt 300
caccaactgg gcgctcgtgt ccatgaacca cgacacgcag tcttgcattg accccaacgt 360
catggaggcc aaggtcgtg tcagctcctg cggccacgac gggccct 407

<210> 15957
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-C7

<400> 15957

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cgaggccacg caggcacccg ggccggggga tgtcggcgcc ggccggcacag gccgtggtgg 120
cgctggctct cgcggccatc ctctcgacc cggcgcccca ggccggacacc ttctccaacg 180
tcccgcacac gctctccggg ggcgacggga agcaagagcg gatcaagcac ccaggtcgg 240
ccaaggcggt gcagtgcacg accaagtgcg tcggcacctg catccggcg gccggcgggcg 300
cgcccgggca ggggcccctc aacgtcagga ggcccctcgt ggtgttcaag gacggcttcc 360
gcagccggca gtactggtgg gtactactac tacctgcaact acagcccct 410

<210> 15958

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-C8

<400> 15958

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cacgcacca gcgcaaagcg atggcgctgc tcaccatgat ggcgtccttc gccgcctgg 120
cgggtggcgc gccctcgcgc cgcggcacct tcgcgtggt caggctccgc aaggtcgacc 180
gctgccagga gcccgccacg ctagcagcaa ccgaggccag gcccgccgc gacggacgcc 240
gcgcgtcat gctcgcggct gctgcggcg ccgtggcagc catcgggcg gccggcgccg 300
ccatggcggg cccaagaac gggacccccg aggcgaagaa gaagtacgc gccatctgcg 360
tcaccatgcc caacgccaag gtctgccaca actgagcacg cccgcgttgc atgc 414

<210> 15959

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-C9

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gcacccagcg caaagcgatg gcgtcgctca ccatgatggc gtccttcgcc gccgtggcgg 120
 tggccgcgcc ctgcgcgcgc ggcaccttcg ccgtgggtcag gtccgccaag gtcgaccgct 180
 gccaggagcc cgccacgcta gcagcaaccg aggccaggcc cgccgccgac ggacgccgcg 240
 ccgtcatgct cgcggctgct gcggcgggcg tggcagccat cggcgggcgc ggcgccgcca 300
 tggcgggccc caagaacggg acccccgagg cgaagaagaa gtacgcggcc atctgcgtca 360
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<210> 15960

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-D1

<400> 15960

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 gcggatcccc cgccgggctg cgaccgtggt tttcccgcgc gcgttcagcc gcgcggactt 180
 cgatggcttc gtgcggcgcg cgtggcaggg cgccaacgcg ggggcccagc gcttcgcctt 240
 cgaggcacgg caggccgcgc agcggctgga cagcaggctc tcgatctccc ggaggctcgc 300
 agacgcttcc cgtgcgcgcc gcgcccgcgc agttgagatc gacgccgagt tcggcatccg 360
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<210> 15961

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-D10

<400> 15961

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 cgggtcccgcg cttcgctggg caagccggtg aaggggcttg gcctgagcat gggccgcgag 180
 cgcgcccagc ggagcattgt gtgccaggcg gcgagcagca tctccgccga ccgcgtcccc 240

gacatggaga agcggaagct gatgaacctc ctctctctcg gcgccatctc gttgcccacc 300
 gtccggcatgg tcgtccccta cggggccttc ttctgtccctg ccggctccgg gaacgccggc 360
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<210> 15962

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-D11

<400> 15962

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 cggagatcag ggagcgcaac cgccgcatcc ccaccttct ctacgccatg cccttcttcg 120
 acctggagcc aactactgg catggtttcc tgtcatccag actgttctg ccggagctct 180
 tgatgttcgg cctcgactg ttccggaacg cctccaactc gtcgaggctg gagatcatgg 240
 ccaagggcac cgtgcctctt ggcaagatga ttggcaactt gatacaggac agagatgggt 300
 gaggagggta tgtataccta catttttcac gtgaagatct gatctccatt ggatctctga 360
 ttttggtatc catgattttc actgtattta cgatttgcaa agatggattc aaaaaacac 419

<210> 15963

<211> 266

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-D12

<400> 15963

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 ggcgaaatag tgtagcgcta gcgcagcaac cagcaaaagg ctcatgtaaa gaattgttca 120
 cgaaacagaa gagcttcact tctaccttct gtaggacatg gtcatcgcaa gaggcataaa 180
 tcgcaaaagg cattggtatt atttcctgct ggaagtaatt tctgccggga cggatattca 240
 ttttcagggt gaatttgaat tttttt 266

<210> 15964

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-D2

<400> 15964

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ctccaacgag gtgttctcca actgcctcaa gtcgagcggg cgcaccggcg tgatcgctc 120
ggaagaggag gaacttcccg taaccgttga acaaaactac tcgggaaaca aaacctcctg 180
ttcaacctcc tcaatggtcc ttcaaaaatc aaccccgccg tctcaactgg ctcaatcttc 240
ggaatctaca accccaacaa taattgcctc gccgacttca acaaaattaa aaccttaat 300
ccgttgaacc aaagttcaac cttaaaacttt tgcaaccggg gaaccaccct gctggcc 357

<210> 15965

<211> 233

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-D3

<400> 15965

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tcagcaagtt caacgaattc cacaaaaaat tggttaagata cagcatgatg ttgctaattg 180
tttcaaaaaa aacactgctt tctcatccgc acgtgcatgc caacatgaat ttg 233

<210> 15966

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-D4

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aggggaggac cccgcagatc ccatcgaaat tcacggccgg cctaaccctaa gccggctctc 120
cccgaactccc ggcgacgacc aatttctccc tgttctcgcc cctccaaccc ttcatgatgc 180
ttagataata tacagtgtg ggttttagca ctgttttgag tttttaaat gagctaaggc 240

ttcagtgtta gtcttgaaag atgaacggtt caagtgggtc ccaagggcat catgtcagtg 300
gagagaagaa caagtgtgtc 320

<210> 15967
<211> 104
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-D5

<400> 15967

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gtgtgttaact aaatgaatcc tccacacgtg ctgtgctgct ggat 104

<210> 15968
<211> 196
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-D6

<400> 15968

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ggatcaggat caggatcagg attaggacag atgggaaccg agaacggtag caaccctcc 180
tcgaacgtcc tggatg 196

<210> 15969
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-D7

<400> 15969

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aatcgttcct gaacagcccc gtcggcccca agaccacca cttctggggc cctgtcgcca 180
actggggctt cgtcatcgcg gggttggttg acatgaacaa gcctcctgaa atgatatctg 240

gcaatatgac agcagccatg tgtgtgtatt ctggactctt tatgagggtt gcatggatgg 300
tacagccccg aaattatttg cttctagcaa tgcattg 336

<210> 15970
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-D8

<400> 15970

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gtcggccaag gccacgatct tcgatgagta cctcgagaag agcaaggcca acaaggagct 180
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gttcggcagc tgccagttcc cctacaactt cactgggtgc caggacctcg ccaagcagaa 300
gaaagteccc ttcacacgag acgacctcga gattgagtgc gacgggaagg agaagttcac 360
gtgcggctcc aacgttttct ggaagtgg 389

<210> 15971
<211> 327
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB83-005-Q1-E1-E1

<400> 15971

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ggcgggacgt atcagtgtca gggtcctcc ggccgcgagcg cagcaagagc agcaggtgaa 120
ggangaggag gccgaggcgg cgagcgtgcc gccgccgcag gccgcggaga aggaggcgag 180
gaagggggac gcgcagtccc tgccgcggca gcctttggcg gagagcaaga acatgagccg 240
cgagtacggc gggcagtggc tgagcagcac caccgggcac gtccgcatct acgctgcgta 300
catcgacccc gttgacaacg cgttcga 327

<210> 15972
<211> 409

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-005-Q1-E1-E10
 <400> 15972

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tccggggccc gcgcccgaga acacgcgccg cttcatcgag gtgcaggagg cctacgagac   180
gctctccgac ccaagccgcc gctccagcta cgaccgtgca ctgccccgcg gcgtctgccg   240
cctcgccctt tccggggccc gttcccaatc ccaccacgcc tactaccacc accaggagca   300
gggagagaga tctgggtgga gaaggtcctg ggaggaccag atcgcagagc tgaagatgag   360
gagcgtggcg aaggattcag aatagaacct gtcgtggggc gtcgcatg               409

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<210> 15973
 <211> 415
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-005-Q1-E1-E11
 <400> 15973

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ggtcattgcc cggacggcac tgcttcgcct tgctgcagct tcgacgcgcg cgtcctcggc   180
tcccggggcg cggcggctgt actcgtcctc aactcacac ggacacggca gcgaggagca   240
cgcgatcact cgggaggatg agcagcttcc accgcgcgcc cacgggccgg accccggcgt   300
gcgggcggtg cctcgtcgcc gtggagagca tcggtgagca tggatagata gtaagcttgc   360
attcgagcac ttctgcagtt ctgctcatgc gaatacccag tgtttctttt ctgca       415

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<210> 15974
 <211> 410
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB83-005-Q1-E1-E12

<400> 15974

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caaaatcctt ttcttggcgg agggcccttg gttgcaaaga atttccaaag gtaaataagg 180

gttgacaggta ataaacaaaa atcccttggc caaaaaattg aaggcccaag gccattgga 240

ttccccaaca aaaaggctct taggttaagg aaagcttata anaaattatt tatgccaaact 300

ataactagca agagtagctt tgaagacaga ctggctgaat tggagcagga agttgagctg 360

tcggaatctc ctgctgtgtc ctgcatggtc gaatcgatcc gcatgtcggt 410

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<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-E3

<400> 15975

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tcatactgct ggagcttgcg agcggcagaa ggccagtcga gaagtcgggt tctggcaagg 180

cttgtggaat ccgaagctgg gtgctcccg cgcgaaggca gggcaggtac gacgagattg 240

cggactcgaa gctgggagac aagttctctg gatctgagct gagaaggatg gtgttggtcg 300

gtctagegtg cacacgttca gaacctgaaa agagaccac gatgcttcaa gtcgtgccgt 360

tgctgaa 367

<210> 15976

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-E4

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ccgccgtctc ccgccggtcg ccgcctcccc cctcgttct gcgccctga cacctcccca 120

gctctcaacc gcgcgcgcga gagcccaggg cagtctcagt ctgacgacgc cccgccaaca 180
agccccgggtt aaggcgccctc gtccctggcg ccgcgcgcga gctcgcatct cgaccgatgg 240
tcccgggtctc cggcgctgcg gtccggccaa cgggcggcgc tgaaccgcgc ggggctctcc 300
tcgggctcgg tctctgggcc gccgggtga 328

<210> 15977

<211> 233

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-E7

<400> 15977

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ggctctcgcc aaccagttca agggttccgg tcccgggttg ctaaaccgcc cccgccggca 120
atttcaaacc aagggggaaa ggcaacccc ttaaagggcc caaaggccac aagaaagggt 180
ttcaacaaac aggtcttgga catctgcaga agaaaaaga ttaggaaaaa gca 233

<210> 15978

<211> 417

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-005-Q1-E1-E8

<400> 15978

acggacgcgt gggggcagct gcacgtgctt tggcaatcct aggggagaat gagaacttac 60
gtcgagcaat aagaggaagg ccagttgcaa agaaggggtct acgcataccta tcaatggatg 120
gtggtggcat gaaaggcctt gcaactgttc aaatgcttaa acagatagag caaggaactg 180
ggaaacgcat acatgaaatg tttgacctca tatgtggtac atccactggt ggcatgcttg 240
caatggctct tgggatcaag cagatgactt tggatcagtg tgaagaaata tacacaaaac 300
ttggaaaact tgtatttact gaacctatcc caaaggatga agctgctacg tggaaggaga 360
agattgatca acttttcana agttcctcac aaagttttag agtgggtgta catgggt 417

<210> 15979

<211> 402

<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-E9

<400> 15979

gttcaactcc gtgacccact gcgcaactac gagccagtgg gcacaccaat gcttgcatta 60
attcaagttg aaagggtttt tgtaccccca aagcccaaaa tctacagtac tgtctcagac 120
aaaggcaaca gcgagcagga tgatgaggaa cccaagaccg aaaagggttc agataaggca 180
ttgggtcacgg aagagaaggc tgaggaatta gaggatccca ttccccaatt caaggttaca 240
gaagtgcattg tcgctggttt caagagcgaa cctgagaaga agaaaccatg gggcaatcaa 300
acgcagcagc agtctggctc tagatggttg cttgcagctg gaatgggcaa gggaaacaag 360
catcctctga tgaaatccaa agctatagtg aagccaacca aa 402

<210> 15980
<211> 193
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-F1

<400> 15980

cgcgtccaat ttaggcaac acgcagcagt agttacattg ggcatagtgt ttaggcttt 60
aaagggaacc atcaaaacc taaattacat gtatgaggga ttgaacgtgt atataaagta 120
ttcagtggta ccactttaca aagctggccc ggagattgat aatgttcaca aaaaagaggt 180
gtcccttgat aat 193

<210> 15981
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-F10

<400> 15981

ctcgtgggtc gacacaagcc tctaaactga cgttgtgact aagcgtccgc ccacgcgtcc 60
gggatagact tagaagcttt ggagaaggga aagaccaac cacagaagaa aatcaaactg 120
cagaaaagaa gtgttcttca caaatgaatc tgaaaaattc tgctcgttca tcgtctgtca 180

gtatcgtttg ggaaagctgt ctgaagcatt aacagtttta cttaacgtca gatgtgtagg 240
 actgatggtc accaagttcc cggtgacact gtatacaatc gcagacgcga tgctatgttg 300
 gtgattgaac aggtgtagcc gaatagttgg atccaataac ttcacctgta atgtaatgg 360
 ccaattttat catgggaact gtagttctaa atactccagt gaccagtgtt attgtgg 418

<210> 15982
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-F11

<400> 15982

cggacgcgtg ggcgcttttg ctctctccct cccggctctc ggcttcttct acacgtacc 60
 gtctcacage cgtaaagcc cctcccgat cccgctagtt cgccaccgcc gcccgccgc 120
 ccgcggttcg cctcatcatg gccgcctcgt cgaccgccac ctccgtccac gacttcatcg 180
 tcaaggatgc gagcggcaaa gacgttgacc tcagcaccta caaggggaag gttcttctca 240
 ttgttaacgt cgcattccag tgtggcttaa ctaactccaa ctacactgag ctggcccagc 300
 tctacgagaa gtacaaggac caaggctttg aaatcctggc tttcccatgc aaccagtttg 360
 gtgggcagga gcctggtacc aatgaggaga ttgtccagtt tgctgcaca cgcttcaag 419

<210> 15983
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-F12

<400> 15983

taaacagacg ttctgccaac gcgtccgcgg acgcgtgggg tcacttccat tttctcaata 60
 ccttaagcaa ggaccaatgt ctcaagccca gcccctcgt tccaagccc agtggaaaca 120
 cgttaaattt caggataacc aagctaagtc catgaaggaa ccaggaaccg gtgggtatgg 180
 ctatgggacg aaaaatgaca agaataagga tgtggatata atagcttcg acttcatcaa 240
 gctgaagcac aaggcttggg cactccagaa gagcacaacc atgtaccaac cttctaccta 300
 aaggtgtcaa tagttcaaga agttgatact atatacttat gcttgtctct gtatagtcta 360

taagtcctaa ttcaaataac aggtgctgct tgcagccttg gatatttg 408

<210> 15984
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-F2

<400> 15984

caccactccg cgctagctga ggacggtaca gcggcacaga ggtgcgacgt acgacgacga 60
cgacgcaggc gccacacatg gcatcccagc tctccgccgc cgtgccccgg ttccacggcc 120
tccgggggcta cgccgcgccc aggtccgcgg tggcagcgct gccgtccgtg aggggtgggca 180
ggaagaggtc gtcgtcgcag ggcattccgt gcgactacat cggctccgcc accaacctga 240
tcatggtgac gacgacgacg ctgatgctgt tcgcgggggc gttcgggctg gcgcgcgtccg 300
cgaaccgcaa ggcgacggcg gggctgaagc tggaggcgcg cgactccggc ctgcagacgg 360
gtgacccccg cgggttcacc ctgcgccaca cgctggcctg ccgcgccg 408

<210> 15985
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-F3

<400> 15985

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cgaccggggc gccgcgcgcg ctgccgccgc gaacgcgtcg gccgcgatgg ccgaaggcgg 120
caaacgccac tgccacggag gcatcaaagg gctcatgggc atgggcctca acaattctat 180
cggcctcgcc aacgccacca tgccgctggc tcacggcttg tactacacgc ccggtgagtc 240
ttggaccaat ggaggcaatg ccgccgtcca tgatcatcag gtgagccacg gcggcacctc 300
gcctcagacg gtggctcacc actcgccgtt ctgctctctg ctgtctcttg ctgctccggg 360
gccccagctc gtcttctact cgccggaagg cggccgcttc gccatgaaag aagccaccga 420
tcatcagttc gctggtt 436

<210> 15986
 <211> 382
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-005-Q1-E1-F5

 <400> 15986

 attttactca ccaagcagca gtatagacat tgggcatggt gttgtagcta tgaaaggaac 60
 ccagcagacc cttaaataca ctcagcaagg gttgaacctg tgtgttgact attcagttat 120
 gccattttac aaagctggac cggtgatgga tcttgttcac aaaatagtgg ggtaccttga 180
 ttatcgaaca actctgaaca agaggcaa at ggaaaatctg gttgatgagc ttaaaggccg 240
 acgtgtaacc gtgattcatc ggaggactaa tcagaagtac acagtgcaag gcttgacacc 300
 cttacctgcc agccagatga cctttgtgga tgctgaatcc ggacaaacaa aatgtcttgt 360
 ggagtattat gctcagaaac at 382

<210> 15987
 <211> 259
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-005-Q1-E1-F6

 <400> 15987

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 cgtgggcccgc cctccgcgg tgcacgttcc tgcggcgacg accaaggctc tgcgcccgcc 120
 cgccggttaa cgggttgaag aaaaaggcct gttccacaac aacctccggg ccccggtcaa 180
 aggagaacca cctgctgaaa acggccccct tcttaacaag gtggggaacc agggcaaagg 240
 cgccgcccgc cccgcgccc 259

<210> 15988
 <211> 409
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-005-Q1-E1-F7

 <400> 15988

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ggaagcagga acgcgatgcc gaagtcgaag cgcaaccgcc cagtgcctt atcgaagacc 120
aagaagaagc caggttttaga gcgcaagggc aaagtagtcg ccgagataaa agatgctgtc 180
gacaaatata gcagcgcta tggttttacc tacgataaca tgaggaatca gaagctcaag 240
gacctcaggg agcagctcaa gtcttctagc aggatttttc tcgctggaaa gaaggttatg 300
cagatagcgc tggggcgctt gcctgctgat gaagctaaaa caggcctcca caaactttcc 360
aagttccttc aaggcaactc tggctctgta ttcaccaatc ttccaaggg 409

<210> 15989

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-F8

<400> 15989

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tccgccatgg cagcgagcca atcctacgtg atccgattcg acggccactt cgacgagccg 120
tcgccgagct ccgcgggcgc cgagccgccg ggcccgcagc cgccgttcgc agggaggatg 180
atctcgctcg agcgggagca ccaagtcatt gtcgccgcc tgctgcacgt cgtctccggg 240
tacgccacgc cgccgccgca ggtcttcacg ccgccgccg cagcggcgcg ctgccagggtg 300
tgccggatgg agcggtgctt cggctgcgag ttcttcgccg ccggggaagg cgcattgggc 360
ggcggcgcg agaaggcagc cgcgaca 387

<210> 15990

<211> 159

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-F9

<400> 15990

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gaatcagagc agttcatggc tctcacatgc aaactgtgcg cacagatcgt ttctcggaca 120
ctggacagct gaacctattt gacagagtgc ccagcagca 159

<210> 15991
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-G1

<400> 15991

cggacgcgtg ggcggacgcg tgggcggacg cgtgggcttc gccgcaccag cgccagcccg 60
cgccgtgggtc agaaggaggt ccttcaccgt ggcgcctct ctccgcaagg ccaccggcac 120
cgccgcccgtg gcaatggctg ccagcgcctt gcttgccggc ggtgccatgg cccaggaggt 180
gctgctgggg gcaggcgacg gcgggctcgt cttcgagccc agccagttca ccgtcaaggc 240
cggcgacacc atcacattca agaacaacgc cggcttccc cacaacgtcg tcttcgacga 300
agacgagggtg ccgagcggcg tcgacgccac caagatctcc caggaggagt acctcaacgc 360
gccaggcgag acctactccg tcaccctcac cgtgccg 397

<210> 15992
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-G10

<400> 15992

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tcgtgatccc actagtcaca atgcctgccc tcgccaagcc cgcctcccgc accgccaagc 120
ccgccgcggc tccgaagccg aagcctgccc ccgccaagcc gaaggcggcc accgctggtg 180
cctcccaacc gccttacttc gagatgatca aggaggctat cacggcgctc aaggagagga 240
ccggctccag ctcgcaagcg atcgccaagt atgtggggga caagcacggc gcgtctctgc 300
cgccaactt caagaagatg ctttccatcc agctccgtgg gtccgcagcc aatggcaagc 360
tcgtgaaggt caaagcttcg tacaagctct cgggacgccg caaga 405

<210> 15993
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-G11

<400> 15993

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tgccgcgaag atcaagagca cccttgaggc cgagaaatac ttccgcagcaa ccaaagatgc 120
tcttgggcat gttctcgcca agctaggcta gacgcaatgg ctaataatgg ccatgtaatt 180
tcggacttgt gtttgttcat atggacccgg caaggcaatg taccattttc tgttgatatt 240
gtatcaggaa gcacttaact ac 262

<210> 15994

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-G12

<400> 15994

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ccgccacggc gtactccacc gcgctccccg gcggggcgcg cctccccgct gccggagccg 120
ccgcaccgcc ctctgccctc ctctctccgc ggcgtaataa actgtctccg ctccctctcc 180
ggctccaaga tgccgcgagg ctgtcggtgc tccgggtgaa ggcctctcc gacgactcct 240
cggccgcgag cggggacgag ctcatcgccg acttgaaagc caagtgggac gccgtcgaga 300
acaagagcac tgctctcacc tacgccggcg gcgctgtcgt cgctctctgg ctgacgtccg 360
tcctcgtcgg cgccatcaac tccgtgcctc tgctccccaa gatcatg 407

<210> 15995

<211> 338

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-005-Q1-E1-G2

<400> 15995

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tagaatatga aacggatgtc aactgatac cgcaaccgg aacagaaggg aatggcaatg 120
acaagtgat gacctcgtag ctacccttga catgctcagt acagttgctg gagagttgag 180

actcactccc tgggtaggtg tgtaggatta gtttggcgcg gattctgagt gtccaatctg 240
agaagtgctt atgtgaatca gttagttgtg catgtagctg gtagactatt tattaaggtg 300
accccgga aaaaggaaa aaanggggga aaaactgt 338

<210> 15996
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-G3

<400> 15996

aatccaaaga atggcttcgt gctgccgagg cctaagatgt ccaacgctga cctgtgcagg 60
atcatcaact ctgaccagggt gcagttctgtg gtgaagecac tcaacacgga agtgaagctc 120
agggagaaga ggaataatcc actcacgaac atggctgctg tgctcaaact caaccctac 180
ctgtgcaccg cccggtagat ggccaccctt gctgaggctg ctggtgtgaa tgccaagact 240
gtgaagctcg actctaagac gaccaaactt acccgtgac actgccaacg ttatagctgc 300
gggcaacgca tggtagagga ccattggtctc ggaaagcgac tacaccgagt ttgagaactt 360
ctcaaagtgg ct 372

<210> 15997
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-G4

<400> 15997

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ttggctgcag ggatgactgc agggatgggt gctggaatgg ctgcaggat ggctggctat 180
ggtgttgatg gtcagcgtat gatgggtgtt gttgggtatg acagcagagg gatgggatat 240
ggtggcagac ctgagccacc tcttccgcct gatgcatcaa gcactctata tattgagggc 300
ttacctgaa actgcacagc acgggaggtt tcacatatat ttgcccatt tgttggtttt 360
cgtgaagttc gtcttgtaa caaggagtcc agacatcct 399

<210> 15998
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-G5

<400> 15998

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ggaagaaaat acagagacac ctaaaagtga tgctgttgat catccaaaga aaagaggacg 120
tccaaaaggt gtaagatcca gcaatggcac acctagtaac tcagctactc cgagcacaaa 180
ggggaaaact gccggcaaga ataccaaaga aacacacaaa actggcccca atcttataaa 240
ggaactcgag aagagctcga aggacaaagc tagtgtatca actgagacaa aggatgaatt 300
gcctaaggat gacaagagtg caagcagacc taaggaggct attagcaaag gcaaggattc 360
aaaagacgaa ggcaagtccc actgaagaaa agct 394

<210> 15999
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-G6

<400> 15999

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cgactaggag agagcctggt gacatactac aaccaacccc ttattgctgg ttgtttgtca 120
ttcgtggcta ggacactgaa ctcatactgg ggaacacagc aatggggtga tcttgcgcgg 180
tacactgggt tacagagaag cgaggaaaag cctcctgctg aggccactat gccacctgat 240
tcagcacatt tggagggttg tacgacggaa ggacatgatt ttgatgacag cagcaataac 300
accaacaaat cgactggtcc gagctagtga tttgattact tcacagtggc tgcagattac 360
atggcctatt ttcatagaca atgaaagtgg ctgccttctt gctcctggga tt 412

<210> 16000
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-G7

<400> 16000

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gtttcagagc ttccctgtttc aagtgatata tggatgggat atacaagtta cctggataga 120
accctgaagg tgcccttctgt agtcagaagt gtttattaca gagccacaag aaattgtaca 180
tgggttggtg agttatgggt ccattatttg ttgtctttgg agcgtattcg tgcttctgaa 240
gaagagctgc agcatgtatt tgaacgggca atacaatgta ccttttcaac catacaagag 300
tatttcaata tttatcttac tcgagttcat ggtttaagac ggaggatttc tgatggcttg 360
gattttcaac tgattaggca gacattaacg gatgctgcag aatttctctc atctcaactg 420
agta 424

<210> 16001

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-G8

<400> 16001

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acatgatgtg catagttgca tactttgatc atggaacgat ggctgaagaa accaccttgc 120
tggcaaattc gtatggaaga aatgaaggaa ccaagggcat acatcatgga agaaagctga 180
tggacaatag tattggttca aaccgtgagt attcaatcga tgatatgtct catccaaagg 240
caccacatac tgagctcaag caaccctcat acttagctcc tggttgctca agcaaccctc 300
tcaagcaacc ctcatactta gtcctgggtt gcattcccta aagttcatgc atacatatat 360
agccttccac tcatcatatg ctgggtatccg atctatatat agacacatat gatatgggtg 420
atat 424

<210> 16002

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-G9

<400> 16002

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cgatccacac acggcaagca acgcccaggg ctctgtgctcg ccccgcgacc cgcgaaagat 120
ctgtgctggt ,tcgctcgctc gctcgcgccg cgccgcccgcg tgggggtgcc gatgagctgc 180
gcggggcagg ccggcggggtg gctgctcgac tacgcgctgg tggaggagga gatccagggc 240
tccgagttca tctacatggt cgacgacccg gccgtctcca gcgtgatact ggggtttgat 300
gctcccagga aagaggacgg cgtccaggac aacccggcg ccaagaagag atcccgccg 360
gagtcacg cgccacccg caccaaggct tgccgtgaga agctccggcg agac 414

<210> 16003

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-H1

<400> 16003

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gacaggagag cgtgcaattg cattccatcc tgaccgtata gaagaagcag gcgagatcct 120
gctcactgat caggtaagc tatggatgga agaagggcga ctactcgacc tagtggatcg 180
caatctaggt ggcgtctaca accttgaaga gctggagaag gttaccaga tagcacttct 240
ctgcactcac atggatcctg aacaacgccc tacaatgtct gaggtggtgc agatgctgga 300
aggagagatt gtcccagcag agcgggtggga ggagtggcag ctggctgagc tccaacgacg 360
acaacagcat gagatgaggc aacacggcag actattcaac ttcagtgaaa agtctcagaa 420
catccagg 428

<210> 16004

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-H10

<400> 16004

cccgggcttc cccgacggca tcctcggcgc cgacctcatg gatcgctgcc gcgcgcagtc 60

gctcaggttc gggaccaaga tcctcaccga gaccgtcacc accgtggact tctccgccc 120
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 gggcgccgtc gcgcgcaggc tgcacttcgc cggctccgac gccttctgga accggggcat 240
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 cgtcggaggc ggggactccg ccatggagga ggctaacttc ctcaccaagt acggctcgca 360
 agtttacatc atccaccgcc gcagcgactt ccgggcgtcc aagatcatgc 410

<210> 16005

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-H11

<400> 16005

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 gagggatagc ttcatcacc acagggcttt ctgcgacgcc ctgcgcagg agagcgccc 120
 gctgcgccc ccaggcctca ccgccagcca cctctacggc gccaccaacg cggccaacat 180
 ggggctcagc ctctcgagg tcggttctca cctcgcatcc aactcggtg cggacgctca 240
 cggccaccat caggacctcc tccggctcgg tggcagcaac gccgcgagcc gctttgagca 300
 tcttctgggg ccgtccaatg cctccgcgtt ccgccccctg ccgcctccac catcgctggc 360
 attcctcatg ggcgctccgc aggagtttgg cgcaggcgac ggcagccggt ccacag 416

<210> 16006

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-H12

<400> 16006

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 tgggtctcat tggtgtcca gctcttgagg gctacctttc gcagccagct gagaaatc 180
 ctcacgtgtt ttccaaagac tctgtatctg gcagatttcc ataccttttg cctgtctaa 240

gtgtatcagc gtttgctaca cttgtcctga taagctgtga gtggcttccg gtatgtatca 300
 acactcttta gcctacacaa aagccatgat ggttttaaatt ttattccttt ggaaatcact 360
 aacactgcta ctcgctctgaa tatattacag gacattgtca tt 402

<210> 16007
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-H2

<400> 16007

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 gatggaggct attcttgaaa gaccgaagta cgagtgcctg ctgtttgatc ttgatgacac 120
 tctgtacccc ttcagtgcctg gcatcaatct agcttgctgc aaaaacatac aagattacat 180
 gcggcaccac ctgcatattg aagaaagcca agttgcagac atgtgcctgg acctgtacaa 240
 ggaatatggc accacaatgg ctggccttaa ggcattaggc tacgaatttg acaacgatga 300
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 gaggaccctc ctactttcaa ttccacagag aaaaatagtg ttca 404

<210> 16008
 <211> 393
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-H3

<400> 16008

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 accggaggac acgagcgaga tcgatgtgta cttcaacccc aagccgttcg aagtcgcctg 120
 cgtgatcctg cttcttctct ggctcacgca ctcagttttc ctggtgcoga tgcccatggc 180
 cgcgccctcc ctgctccatt tctcatgtgc gcgcgctcgg ctccagtcct gccgcgagcg 240
 ccctgctcgg tctccatctt cggcgcggaag caccctgtgg ccgcgcgcta ctctctaag 300
 tagagctccg tccatggccg ccggtcgagc tctcccagc cgaagccct gctcccagca 360
 aacgacacca tgtgcaaata ccttgctgct gct 393

<210> 16009
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-H4

<400> 16009

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cgcagctagc cttgagggca agaagctagg atctttcact agaatatcat caacagtcca 120
gacagctatg gaggatgcgc ttcttcgtat cttgacccca aggcgctcta ttgacatact 180
gagggatgtg cacgctgcc aaggagcgtgg gaggccatat gtcattgttt ttgttgggg 240
gaatggagtt ggcaaatacca ccaatcttgc aaaggttgct tattggettc ttcagcataa 300
cctcagtgtt acacttgcag catgtgacac cttcagatct ggtgctgttg agcagctgag 360
aactcatgca aggaggtctc aggtatcgat caaactatct 400

<210> 16010
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-H5

<400> 16010

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gtcctcctc caccaccgcg cgggtgcatat tgtattaggc tccagagaaa caaaggacgg 120
agagcaatth cgtcgtaggc tgttttccct tcgtttcctc ctcgatcggc cgggtgaacga 180
acgggtgataa taataatgag ataccggtc gtcctcacgg cggcgttctc cgcagcggca 240
attggattct tgatcggaat ctcttcccg gtgcaaatca cgcccaagggt ataccgtcc 300
agcttcgtcg ctgacgacgc ggacagcagc accctgggtc tgggtgacag caatttgctc 360
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cctcct 426

<210> 16011
<211> 402
<212> DNA

<213> Zea mays
<223> Clone ID: LIB83-005-Q1-E1-H6
<400> 16011

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ctccaccaat ctctgcttct cggcggttgat tcctcctctt ccagcctctt cttcttcttg 120
ctctccccc ttctcaca tgaagcgtgt gtctctgtt ccgctgttgt ccaggtggac 180
aatccgatac aagcaattgg gacatgcatt atatcagaga agccacgttc tggcctttgc 240
tagtgcagat gcatcacaag gcaaaagaag ctgaggtgag aatgttgtga tggttgatcc 300
actggaagct aagcgtctag ctgctaaaca aatgcaagac attagggcca aagaaaagct 360
gaagggtgcat tgctgctgta ttggagtgtga ccattcctta ga 402

<210> 16012
<211> 335
<212> DNA
<213> Zea mays
<223> Clone ID: LIB83-005-Q1-E1-H7
<400> 16012

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catacctgaa gaatgccact gtctgacgag gatgctgctg tggctctaaa gatgaagagc 120
agcgattctc ttttttgcag ttaaaataat gacacgaatt tactttaatt tgacagactg 180
gataatcaag aaagctaaga actccaggta gttctgtaac ggttttgtct attgctgggg 240
gtaaacacca cccttgaaga gcttttgatt agtggttgaa atgtgacatc accataatac 300
gtttgacctg acgagcattt aaacacacgt ttggg 335

<210> 16013
<211> 418
<212> DNA
<213> Zea mays
<223> Clone ID: LIB83-005-Q1-E1-H9
<400> 16013

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caagtctctg cattgatggc gaccgaggtg gctgagaetc ccgcgccgtt ggccggaggcg 120
 gtccccgaga ccccccgcga ggcaccggcg gcgcccgcg cccaggcgaa gcctgccaag 180
 gccaaagaagg cctctgcgcc caagaagcgt gccaaaccga cccaccgcgc gtacgccgag 240
 atgatctcgg aggtctgtac gtcgctcaag gagcggacgg ggtccagcca gtacgcgatc 300
 gccaaagttcg tcgaggacaa gcacaaggac aagctcccgc ccaacttcgc caagctcctg 360
 ctcgcccgag tcaagaagct cgtcgccggc ggcaagctca ccaaggtgaa gaactcct 418

<210> 16014

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-A10

<400> 16014

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 ggaggcgcct atggcagagc tggcgccgtc agaggcgta tcatccccag atgatggcgg 120
 cctggatgag attctaagca agttgaacat tgaagtgtct ccaactttaa tcctcactgg 180
 atttggtgct tttattgctt tatggatcct atcttctgtt gttgctgcag ttgattcagt 240
 cccctgctc ccaaaattgc tggaattaat aggaactgct tacacaattt gggttcacgc 300
 acggtatctc cttttcaagg aaagcagaga tgacctgttt gcaaagttcg aagatctcaa 360
 acagaggatt attgatcta tcgtcgacct tttgccacgt gtttaggctt tacag 415

<210> 16015

<211> 443

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-006-Q1-E1-A11

<400> 16015

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 cgcgggatgg ccttgacga ccggcgacga agctagatgc gcgacggcgc gaccgagcca 180
 ccagcaggct ttccagctcc agcaggcctc gtgtgtgggc gtgggcgtgg gcctgccggc 240

ggcgggtccg gtctcgtcgg ccgcgggcggc gccaccagcg ccgatgatag cgcagcagta 300
 cgctgctggc ggacggctgt tcgtgggaga cgcggcggag agcggcgtca cgttcggagg 360
 angaggtgcg gtgcagcagg aggcgccccg gaagcgggaag cgcgcgcgagc aggggcagac 420
 gccgcgcgcg gttcttggga ccg 443

<210> 16016

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-A2

<400> 16016

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 gggccagatc agcgttgctg tcgaggagta aagagttctt cccagttatt ttcaaagaac 120
 tctctcgaga gcatgacaaa gtgattgctg gctgtggaga tttgtcctgg aaataagcac 180
 aacgatttgg gaacaccaga ttttgtcgaa ttttcctttc cttttgatga atatttgagc 240
 acgtccatgt caataccatt cttgtggatg gcagcaaccg caaagatctg tagtggagcc 300
 ctgagctggg ctcgttgcaa aatatgccag cctctcatct tcaaacagaa ggggcggcga 360
 ctcagaagga tcaaacactta ttttc 385

<210> 16017

<211> 241

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-A3

<400> 16017

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 tgagcctgga gatggatcaa cccgtcgtgc gttgtttcat tttgtgatga atgggagaga 120
 gggatatggga caagattgat caaccgctcg tgcttacgtc tcgttaatta ggagagctac 180
 cgctcggatt tggtgatttg taatatatga accattgatg aataaatgca ttcacttgta 240
 c 241

<210> 16018
 <211> 374
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-006-Q1-E1-A4
 <400> 16018

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 gtcacctcog cggcctcacc gccgcgcggc tcttcgcggc ggcccttcctg ctctccgttg 120
 ccgtccccggc cgccagagcc caggaagaaa ccgagcacga ggaggagtgc agctacgtcg 180
 tcggcgacga gaacggggccg gagcactggg gcagcatcaa ggccggagtgg ggcaactgca 240
 gcgcggggcg gatgcagtc cccatcgacc tctcccacga gcgcgtctcg ctgggtgcggg 300
 ccctcgggta cctcaccac tctaccgcc ccgcccaggc cgccatcgcc aaccgcgggc 360
 acgacatcat ggtg 374

<210> 16019
 <211> 412
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-006-Q1-E1-A5
 <400> 16019

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 caaccgggac aaaacggggg tctccttg tggcaacggg ccccccggc cccggccgg 120
 ggccaacctg cctttcaagt tcaagttctt cttcaaaccg gccttacaac ttgacttct 180
 tcgggttaac ccattcaag gattcaacct ttccggcaa aatgaccgtt cgctacatga 240
 cggatatgtt cactatacca gacacggact tcgacatcgt gggcgccggc tccgccccgg 300
 tgtcgtgcgc gtacaatctc tccagggacc ccgctgtgca catcgccatc gtggcacact 360
 ctgtgtcgcc gggcgccggc gcgtggctgg gcgggcagct gttctcgcc at 412

<210> 16020
 <211> 408
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-006-Q1-E1-A6

<400> 16020

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caactccgac tctgtccta ctgtatgtac tgatctgtac agcaagcaat attcaatcag 120
cagtcaattc ctaggatgtc gtaaggagat gagctcgcca gacagtccat cacactgeag 180
gcttgattgc atcttcacag gacgtggact tgtgggcaca tgctccacgg gcaacggttc 240
ggcatcctcc tggcgcttctt gtggctggca gcagccgca ggatctgtgt ggagccctgc 300
gctgggctcg ttgcaagata tgccagcctc tcctcctcag actggaagac gaggacgggg 360
ttccctctcc aggttttttc catgatgtta cagcatttag agtgcatg 408

<210> 16021

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-A7

<400> 16021

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gacgacgacg gacggagcgg cgatggcgtg ccgcgcactt gccctccgct ccctgctcct 120
ccccgaccgg ctacaccgcc tcccggccgc ggccgccact gtttgagagag cgtcccgcgg 180
tggccgccgt ccgcacctcc gctgctgctc cggcggcggg ggcggggagc ccgggcagcc 240
gccgcaagaa gctgtgctcg aggccatata caatagcaag gtctaaagga agggttgcac 300
tcacaacaaa tatggtcatg ggtggtactg tgactgacga tgcaagtgat gaatggcttg 360
ttctggatca gaaggtaaatt tctacccca cagatagagg atttacagca attggcact 419

<210> 16022

<211> 175

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-A8

<400> 16022

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ggtggcgaac aagcgggtgg tactgaagcg ctacgtgacg gggttccccg gcgccgacga 120

catggagggtg gtcaccggca agcgcgcgtg gccgtgcccc cgggggtccac ggcac

175

<210> 16023

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-A9

<400> 16023

atagtgttgc ctatggtgta tacatgtcca tttctagtaa cctcaggtat cagcttcttg 60

ctggtgtgat cgagcagagg atgctggagc cgttgctgca taaccagaag ctactgctga 120

gtgcaatgtg cttcatcggt cgtacgggca acacattcct tggctctttg ctgtggggtg 180

actatgccag atggataggc gtccagaagt ctcacgaaga ggcctaaagt tctagcagct 240

tgctgcatg ttccgctgtc actgcctcac taggcacgtt cacaatacca tcgatggctt 300

gcctgcctct atagaatgct gatctactct tctactggagg ccccttata tataggacaa 360

aaatccaat tttgtttgga aaaccacaag tagggatata tctgtcgaat tctcgt 416

<210> 16024

<211> 236

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-B10

<400> 16024

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agtcattggc gccgtgaact ccagcgtctt cgggctcaag ccagccgcgg cactgcggca 120

ggcttcgtct gctcaacgcc cgggaaacct tttcaacttg gctggcccca tgggcggcta 180

cgctccactg ctcggcttaa cggccttctt cgccttaacg gcaactacag gttcgg 236

<210> 16025

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-B11

<400> 16025

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 tgagttgaac agcttcatag gcctacaagt agtgaaacgt ccatgtgttg gctgtactgt 360
 tccgtcacta ggagcagcta tttatccat 389

<210> 16026
 <211> 389
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-006-Q1-E1-B12
 <400> 16026

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 aatgggtattg ctctgcgtgc tcgtctcctt cctcctgatg cccttggcct ccctagccct 120
 gacgcaggac ttctgcgtcg ccgacctgac ctgcagcgac acgccggctg ggtaccctg 180
 caagtccagc gtcaccgcca acgacttcta cttccacggc ctggccggcc agggcaaaat 240
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<210> 16027
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 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-006-Q1-E1-B2
 <400> 16027

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 aagagatgga gcgggggtggg gaggatgggg gcggtggtcg gaggaggaaa ggagggagaa 180

gatgacgagg agctgagaca gaccaaggag caggctgccg ccaggaggcg gtgggaagcc 240
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 ctgacggaca aggttctttt ggatgttagg ctttcaaacg agcgtcaaaa ggcttggttg 360
 aaaggctcta cctggattcc tatatttgat gtggatgcac ccgttgatct gggcggactt 420
 aac 423

<210> 16028
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-B3

<400> 16028

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 gagtggtga cccgcgagta caccatcaac ctccacaagc gcctccacgg atgcaccttc 180
 aagaagaagg caccgaatgc catcaaggag atcaggaagt tcgcccagaa gaccatgggt 240
 accaccgatg tccggatcga tgtgaagctc aacaagcacg tctggagcag cggatatccg 300
 agtgtgccga ggcgagtcg tgtcaggatt gcccgcaaga ggaacgacga ggaagacgcc 360
 aaggaggggc agtactctct ggtcacagta gctgaaatcc t 401

<210> 16029
 <211> 363
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-B5

<400> 16029

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 cggacgcgtg ggcgccaccg ccgcgcgcgc ccggcggcgc aaggacgca cgatggccat 120
 gcagtggtg cgcaacctcg acctggagcg gtacgccggg cggtggtacc agattgcgtg 180
 cttcccgctc cggttccagc ccaagacggg caccaacacg cgcgccacct acacgtgaa 240
 cccggacggc actgtgaaag tggatgaacg gacgtgggccc gacgggcgcc gcggccacat 300

cgaaagcaca gtctggcgcg ccgaccctgt cagcgacaag gccaaagctca cggttctctt 360
cta 363

<210> 16030

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-B6

<400> 16030

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ctctggcggt ggcgccctcag ggccctgccgc ccctcgggcg ccgcgcctcc tccttcggcg 180
tcgtctgtct caagaagaag atcaagaccg acaagcccta cgggattggg ggtggcctga 240
ccgtcgacgt cgacgccaac gggagaaagg gcaagggcaa gggcgtgtac cagttcgtcg 300
acaagtacgg cgcgaaacgtc gacggataca gcccaatcta caacgaggat gactgggtctc 360
ccaccggcga cgtctacgtc ggtggaacca ctgggcttct gatctgggcc gtcaccctcg 420
ctggga 426

<210> 16031

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-B7

<400> 16031

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catggcgggg caggagggtg cgaacaagcg ggtggtactg aagcgctacg tgacgggggtt 120
ccccggcgcg gacgacatgg aggtgggtcac cggcaccgcg cgcgtggccg tgccgccggg 180
gtcgacggcc atggtgtctc agaacctcta cgtgtcgtgc gacccttaca tgccggggcg 240
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aaactttggc gtctgcaagg tgatagcatc tgggcaccag gatttcaagg ttgggggatct 360
tgtgtggggg atgaccggat gggaggagta cactctcatc cataaccggg agtcattttt 420

caaga

425

<210> 16032

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-B8

<400> 16032

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acgacgagggc cgaggactac gtggtcatca agcacgccgc gctcttcacg tccacggcca 120

tgagcctgct cctggcgcgc cccaacgtca agctgttcaa cgccgtggcc gtggaggacc 180

tcacgtcag gggagggcgc gtcggcggcg tcgtcaccaa ctgggcgctc gtgtccatga 240

accacgacac gcagtcctgc atggaccca acgtcatgga ggccaaggtc gtggtcagct 300

cctgcggcca cgacgggccc ttcggcgcca ccggcgtcaa gaggtccag gacatcggca 360

tgatcagcgc cgtgccgggg atgaaggcgc tcgacatgaa caccgccgag gacgagatcg 420

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-B9

<400> 16033

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gcagttgtcc ggccaatcct ggattcatgg cagaccgcgg aacaagttcc tccacctctt 180

ctaaatgatg tggttgcagg tgtcaccggc aaaaaaagt agtgaacttg cattgttttc 240

tcatgccaat gttgccccac attttcttcc ccgtgttttt tctggcgacc agattggaag 300

gcttttccca agagtcacgg tcttgaactc tagatgggat ccgcggaata atcattgtac 360

ctgaatcata tactgcaatg tggcagtttt gaaaatgttt cccctcct 408

<210> 16034
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-C1

<400> 16034

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cgcgatgggc ggcgacctgt acgccctcga cttcgacggc gtcttggtgcg acagctgcgg 120
ggagagctcc ctctcagcca tcaaggctgc gaaggtgagg tggccgctgc tgtttgagca 180
ggttgacgcc gccatggagg agtggatagt ggagcagatg tacacccttc gtccagtggg 240
ggaaacagga tatgaaaact tattgcttgt aaggttgctt gttgagatcc agatacactc 300
tgttcgaaaa tcatcagttg cagatgggct tagcatccaa gaaatattgg agaactgggc 360
aaaactgaag cccactctca tggatgagtg gcaagaagat 400

<210> 16035
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-C10

<400> 16035

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ggaagctcaa gttagaagaa gcaccagtgc ctgatcgatg gcggcccagg ctctcctctc 120
cggccggcag ctgctggggc gccccgtgca gtcggccgct tctaggtcgt cggcgaggaa 180
ggcgcccttc gtcgtcaggg ccagctccag ccctccagcc aagcaagggt cgcacaggca 240
gctgtggttc gcgtccaagc agtccctctc ctacctgat ggcacgctgc cggcgacta 300
tggcttcgac ccgctggggc tcttcggacc ggagggcacc gggggcttca tcgagcccaa 360
gtggctggcc tacggcgagg tgatcaacgc cgctaagcca tgctgggcgc ggtgggc 417

<210> 16036
<211> 408
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-006-Q1-E1-C11

<400> 16036

accacgagtc cgattcagta agagctctga cggagggtgca aagaatgcac ctatctcgat 60
tagtacggat gatggttcaa ctggtgaaaa tgaggatggt gcagagtcag aagcagaagg 120
ctcaaattct tggttggttg cacagcgtga agacagtgtt aagggctctt ttgttaacaa 180
aggatctgat aggaaaaggt ccgccgatgc tgctgcagat ggtttttaaag gaaagagaca 240
accaagtttc tcaggaagtg agtccagctc tggaaagtgt acacctggaa atcttatatc 300
gatgcaggca tcaaatgtag tggctttgcc atatcaagtc ncagggtcaag tttctggacc 360
tcctgtctta actaatgcac caaattttca cccggtatgt actgtgca 408

<210> 16037

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-C12

<400> 16037

gtcgtcgcaa cactctatac tgacgtctat tacgcgtccg gccagaagct ggaggagatg 60
tttgacatcc aggggggagct ggggtccaca ctaaagaaat ggcgggtcat tttcactgat 120
gatgaggatg acatgatgct tgttggagat gatccttggg atgagttttg caggatgggtg 180
aaaaggattt acatttacac atacgaggag gcaaagaagc tgacatccaa gtcaaagtta 240
ccggttagca gtgacagcag caagctgagc gctgcgaact cactgtctga atgactatga 300
acaaaaactg cagagtgcta acgtccctct aattttgtta tttccatcat ttgattatgg 360
gggtgaatgc tcacggttgc tccgtgggct gaagttgtgg ttggcattca actgccttga 420
gtttt 425

<210> 16038

<211> 127

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-C2

<400> 16038

cgaccacgcg tccgaccaa cgtccgttaa ctcggtggcg gacggtggg cgggcgctg 60
 acgagttgtc tgtgaggtat ggtgggagcg agttattctt catcagccgt catgttgcca 120
 tctccaa 127

<210> 16039

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-C3

<400> 16039

ggagaaatgg gcttagagtt cggttgctga atacttgac ggtgaagggg gcaggcaaag 60
 gaaaaaacgg aatgaatgaa actgatggaa atagtgagga ggatgtctcc actttgaacc 120
 attctaacga gaaacagttt gaacaatcct ctcaactgtt agatgtactg ccggaacact 180
 tgtttgatga gaatttcaac aaggaagttc ccaagcgcg caaagggcgc ggtcgcggtg 240
 gcagaggggca tgggcgtggc aaccatcaat ataacaatca ccatcacaat aaccagcacc 300
 accagaacaa ccagccgcag tacaataacc atggcaacaa ccaccttggt gggaaccgtg 360
 gcagccttca ctctgttgga actacaccgc ataacctgaa aaccaagctt gagccgcac 420
 cgag 425

<210> 16040

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-C5

<400> 16040

accacacgt ctgctgacg cgtgggcctc gccgcctcca cccgcaccac accaccggcg 60
 atgtccacag cggcggcgca gggcggcagc gacaagccgg cgctcggag gcccgcttc 120
 accaaggtcg accagctcag gccgggcacc aacgggcaca cctcaccgt caaggtcgtc 180
 agcgccaccc cgtgcctgg gcgcgcgcgc ccaggcgac ccgccgccgc cccatcccgc 240
 gcgccgcgca tcgccgagtg cctcgctggg gacgagaccg gcgccatcgt cttcaccgcc 300
 cgcaacgacc aagttgactt gctgaagccc aatgcgacag tgatcttgcg caatgccaaa 360

atagacatgt tcaaaggatc aatgaggctt gcagtggaca agtggg

406

<210> 16041

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-C6

<400> 16041

cctcagtcct ggctgagtta cagaggcgga tactaaaagc cgaggccaca gtacgtgaaa 60

aggatgaaga gaacgagatg cttcatcagc ggcttcagca atatgaaaac cgctgggttag 120

agtacgagca gaaaatgaaa gctatggagg aaatgtggca gaagcaaata cgttcgctgc 180

aatcgagcct ttccgtagca aagaagagcc ttgttttggg tgaaacgcct aggatgtcag 240

actcatcagt ggatcagagc tgggaaagca atgggaacca ccatgtcagc agcgggttctc 300

agctggtgcc acacactggt ggacgtgaaa tgaatgctgg cctcagcgtc atcagccgct 360

tggcagaaga attcgagcag cggagccagg ttttcgctga tgaccaagt 410

<210> 16042

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-C9

<400> 16042

gccgagatca cgccagtaga gatgagggcc acgtcgtccc ccgtggctgc cgccgtcctc 60

gccgcccctt cctccgccgc cgccgtagtc gtaaagcctc tgccctcgtgg cgcagcgaat 120

ggcggcagca cgggcaggcg cgacgtgctt gccgggaccg ggctgggagc ggcgctgctg 180

ctggcgctgg ggcccgtgtg cggcgcgggc cgtgcggcgg acgaggaata cgtgagcgag 240

acgaaggagg tgatcgggaa ggtgcggctc acgatcaacc tggacaagtc ggaccgcagc 300

gtggcggacg cgggtggcgga gctccgggag ctgtccaact cgtgggtggc caagtaaccg 360

cgggagaagt cgctgctggg gcgggcgtcg ttccgggaga tgtactcggc gctcaacgc 419

<210> 16043

<211> 420

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-006-Q1-E1-D1

<400> 16043

cggacgcgtg ggcggacgcg tgggcggacg cgtgggcttg cgccagaaat ctcctacaga 60
agcttggttg cacttggaat tgcttgggta aatggtacac cagtgtcctc atttgatagg 120
caggatgcag accggcttct tttcttttgc tctaaccagt gcggagatca agctattcaa 180
aatggctcat atgctcatgt atccagctgg tcagcacccc ttaccaagga tagaaccact 240
ggaagtctcg agtcaaaaca gatgtcattt ggtgcaaaag gagttgtagg ggataatacg 300
atctccctat catcattgaa accaagggtta aagcctgcaa caatgagacc ccttcnccac 360
tctcgcaagc aacaaatgca tccctttatg gggtttcctc agtccatcat tcaogatgct 420

<210> 16044

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-D10

<400> 16044

gatcggtact cgtcattcta gcccgggaaa cagccccgtt cgaccggggg tggaaaatat 60
cctagcctgg accgcaagcg aacgcgaagg gcacgcgact tctcgtcggc gtcgatctgc 120
tccggcgacc gcttctcatc gacttccagg ggtcgagtta tgtatgaagt agctccaatc 180
tttagaggaa gaatgtcttc tcaacggggtt ttatgtactt gttctatcaa agagtgagat 240
gaatcattat ctagatctat gatctcgtca tgtttagtac actggaaatg tattcttttg 300
caactt 306

<210> 16045

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-D12

<400> 16045

tagactgact cgtctcaccg gcccctctc taggctctag ctccatcact cggagaagat 60

aagacccaga gtgtcgcttg gtccatctcc aatccagcaa ggcgggcaga cgagccgaga 120
 gtgagacaac catggcgctct ctggccctcc gccccgtcat cccggccacc accgcttcat 180
 ccaggaccct cactgctgctc gttggctccc gctcctgcca cgctgccaca ctccaccgtg 240
 gctttcgctc gcggcgcttc atcacctgca aggcggagcc gagcggcggc aacagcaccc 300
 tcgagctggg cgcagggggc gcagggctgg catcgagcgc ggtcgtggcg tggtcctctt 360
 acacgtgaa cactgacgcg tgcggcctgc ctcc 394

<210> 16046
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-D2

<400> 16046

gaatctagaa gtgaaaagac tacataacga gcgcaaagaa gcattgtccg cacagtctgc 60
 tgcagaggca aacttagaa ggatccactc ttctaaaaaa gatgaggaat cagttccatt 120
 cgacgccatc atagcgccct tggagtcaga cataagaaaa tacagacatg agattgcagt 180
 gctacaagat gacaagaagg cactagaacg acatctaaag ttgaaggagg tggcgcttgt 240
 tcaagcaggc aacattttgc acaccgcgct tgaaagggca ctcatagtag aggatgttca 300
 gaatcagaac attgaattga agaagcatat ggagatatac catgaagaga ataaattgtt 360
 agagaaggct aacagacaga aggtgctaga ggttgagaag ctacacaaa caattaatga 420

<210> 16047
 <211> 353
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-D3

<400> 16047

actccatcgg cgggtggcttt ggtgctggct ccgatgtccg ccctggtgac cgggactgct 60
 cctgcggcgc acacaacttc gccagacgct ccaactgctt caagtgtcc gccacaaatg 120
 aagaagctgc cggcgccctt gatagtgaca tgtcacgctc acacggatac gcccgcttcg 180
 gcagaggcgc tgccgcccgt accaaacgcc ccggtttgga atctggagac tgggtctgca 240

ccaaatcccg ttgtaacgag cacaacttct ctaacacgat ggaatgtttc aagtggaaca 300
cgccacagga ctccggtagc gctgccacga cgacctacta aaactacttg cac 353

<210> 16048

<211> 406

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-006-Q1-E1-D4

<400> 16048

cgaaactagt cttccctcct gctggcggcg tgcggagggc cggaggccgg gtcgacaaga 60
ggagatgacg ttggcggcgg ggctgggtta cgccctgac gcgctggggc ctgccttctc 120
cctcttctcc ggcgtcgtcg tcaggaagcc cttcctcgtc ctcacctcc tctctaggtc 180
taccttctgc gtcgcccgtt tcgtgcttct ttagccacgt ttgatcaga tcgtccgttg 240
ccctctaata aaagcgaaca ttcagttaat cgattggcgt aagaggcagg tggcgtttgt 300
ttgaggcgtt ccagggtgtg gtttcgtgag gcaaacgcgg attattggtt tactcgcagt 360
tgtgctangg ttcagtagtt tcttccggat cgatacggat gctgct 406

<210> 16049

<211> 424

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-006-Q1-E1-D5

<400> 16049

acaggcttaa ttgttcacat agtgcggaaga agaagaagtc tctttcctct ttggaaatgc 60
tggagcatcc aggaaactga accaccatac aaagctgttt tagcgaaaag ggagaacttc 120
agggatatag tggttactcc ttacatgttt acagatcact taccatggag gtgccacttt 180
gctatgcaga agattgttga agtcaaacg cctatgagac gtgcgcattc cgatccaccc 240
gtacaacaac atttggtctg accaggacaa aactgctgct gcccatgtac agaattgcgt 300
gaaggacaga aaattatgat gatcacattt agcagcatgg tctattgcag gctggaccgc 360
tggagggtata tttcagtcct tcaggcagcc agaatatgtc cgtgacagna ccaaaatcgt 420

gacg

424

<210> 16050

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-D6

<400> 16050

gaagcagatt ggttctacac gcccgatatac acgacatgcg atctcacccc caagggctctt 60
cccttgccctt tcaagtctcc tcgaatgatg cgcagcgcga tccagctgat tgctacgaat 120
tggccttact ggaatagatc agagggcgct gatcatttct ttgtcacgcc ccatgacttt 180
ggtgcttgct ttcatatca ggaagaaaaa gcaatcggac ggggaatcct tcccttgctt 240
cagcgtgcta cgctgggtca gaccttcgga cagaagaacc atgtctgcct gaaggatggg 300
tccatcacca tcccaccata cgcgcctcct cagaagatgc agactcacct tatccctgca 360
gacacccctc gatccatctt cgtgtacttc cgaggtctgt tctatgacac cggcaatgac 420
cccgagggtg g 431

<210> 16051

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-D7

<400> 16051

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tgtgggtttc aaattccgcc tttggggagc cctcaacctc ctccccaacc ggctttggct 120
ccccggcggc gaacccggca acaacaagcc tttttcggca aaggaaccgg cggcgagacc 180
ggacaaagcg ggaaacaggg aatgtgaagc gcctctcaac gggttcgag accccggggc 240
ggaagatgtg tgggtgtggg cacagtgaga ggcggtgtgg ccggagaggc gagactcgaa 300
acctgtcgtg ctgcggggcg gacacaacgc ggtggggcgg tacaagacc tcacgggcga 360
agatctcgag gagctca 377

<210> 16052
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-D8

<400> 16052

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gtgcacccac ctcggtgctg tctgtccgtg gaacggcgcc gagaacaagt tcatctgccc 120
ctgccatgga tcccagtaca acaaccaggg caaggtggtc cgcggaccgg cgcctttgtc 180
gctggctctg gttcacgccg acgtcgacga cggcaaggtc ctcttcgtcc cgtgggtgga 240
gaccgacttc aggaccggcc aggaccctg gtggagtga tgaggaggat catccgacac 300
aagcgggtgct cagtgtcat aggttttctc cgagggcggt gttgctacaa attcacttgc 360
ctcttgctc caaattatat atattacaca cactgcatga aacaagaaca cagctgtttg 420
tcatct 426

<210> 16053
<211> 418
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB83-006-Q1-E1-D9

<400> 16053

cccacgcgtc cgcgctgcg tgcgtccaca cgcgcgcgtc aggacgaagg cggctgtctc 60
cgtcctccgc gcgctgcgcg ccgaggcggc caccctcccc gtgctctcat tcaccggaga 120
gaaggtcggg gaggtaaccc tcgacctcaa atccgcgcc cctccaccg cgcgcgctgt 180
cgtgcaccgc gctatcatca ccgaccgcca gaacgcgcgc cgaggcacgg cctccacgct 240
caccgcggc gaggtcagag gcggaggag gaagccctat cagcagaaga agacggggaa 300
ggcgcggcgg gggtcgcagc gtaccccgct tctcccggc ggtggcgctg tgttcggccc 360
caagccccgc gactgggtcca tcaagatcaa ccgcnaagag aagcgccttg ccatctcc 418

<210> 16054
<211> 416
<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-E1

<400> 16054

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tctctcacct ccccgagca agcgagcggg gcagcgcgcc aggaaggatc ggaggagacg 120
ccatcaatca gcaattgcac gcgcgcggtc ggccgcaggt ggaggaagaa gatgggcctg 180
tgctcgtgct gctgcgggtg cctggagctg ctgtgctcgg tcctcctccc gccctcggc 240
gtctgcctcc gccacggctg ctgctccatg gagttctgga tcagtgtgct gctcaccatc 300
ctcggctacc tccccggcgt cctctacgcc gtgtacgtca tctgctccgt cgacccccac 360
cgccaccgcg acaacgacga ctacgtctac gtagcatgac aagatggacc ggtccc 416

<210> 16055

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-E10

<400> 16055

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ctctccctct ccacctcttt cctccccatc cccgcgcggc cgaggaccac cgcccgcacc 120
ctacgctccg tcgtcccctc ccaggggatg cgctgctcga tgcgcaagaa ggggttgac 180
ccggagatct acgaggacgc gaagggtgtac tgcaacggcg agctggtgct ggtgacgggg 240
ggcaccaagc cggagtacac ggtggacgtg tggtcggaa accacccta ctatgtcggc 300
gacacctcgg cgctcgtggt catggacagc cagatcgaga agttccgcaa gaagtggggc 360
cacatcaagg agtactggcc cgaggaccag tggagggaga tgcaccaga 409

<210> 16056

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-E11

<400> 16056

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 tggtcacgtc gacgaccgcc gccgcgtgc tgtccccgcc gtccgtggcc gggcttcgcc 120
 tggcgccgtc tccccgggcg cgcgtggcgt tccgcgcggc gggggcggc cggtcctgtg 180
 cggcgcgcgc ggagctgagc ccgtcgctgg cgatcagcct gagcacgggc gtgtcgctct 240
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 agcagaacgg caagacgcac ttcgacgccg gcgacgagcg cgccaaggag ttctccggcc 360
 tgctcaagtc caacgacccc gtgggcttca acctcgtcg 399

<210> 16057

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-E12

<400> 16057

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 gtaccggagg aaagcaaacc tccatcacgt gtgggatgtc agcattattg atacggcaat 180
 caaggacttc tacaacaaga gcatggatac catggtagag gctctcaaga tgaatcttac 240
 cgatggatgg tctgacgaca tcgtccactg ggaaaattgc aagaacaaac acgcgacctg 300
 cggaacgac tacgcaattg agagcatcca ttattcctgc aactacgcct acaaagatgt 360
 ggagcaagac atcactctag gagatgatta ttttttcagt aggtacccga ttgtggagaa 420
 gaggttagcg caggctggaa 440

<210> 16058

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-E3

<400> 16058

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 cgcggggcgc tgcggctgaa gctcgtcgcg gtggcgtcca tcttggcgtc gggcgcggcg 120

ggggtgctgg tcccgtgct gggccgtcc gcctcggcgc tgcgccccga cggggacgtc 180
 ttcttcgccc tcaaggcgtt cgccgcgggg gtcctcctcg ccaccggcat ggtgcacatc 240
 ctgcccgcgg ccttcgacgc gctcgcgcc ccctcggcgg gcggcgccag ggccggcggg 300
 ttccccctacg cgggactcgt cgccatgtgc tctgccatgg ccaccatgat ggtcgactcc 360
 gccgcccggg gctactacca gcgcgcgcac atccgc 396

<210> 16059

<211> 424

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-006-Q1-E1-E4

<400> 16059

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 cgtcgtcgtg agagcgctcc acgatgatta cggggacgga cttctaccac gtcctgacgg 120
 ccgtggtgcc gctgtacgtg gcgatgatcc tggcctacgg gtcggtgcgg tgggtggcgca 180
 tcttctcgcc ggaccagtgc tccgggatca accgcttcgt ggcgctcttc gcggtgccgt 240
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 ccgccgacac gctgcagaag ctcatggtgc tggccatgct caccgcgtgg agccacctca 360
 gccgcccggg cagcctggag tggaccatca cgctcttctc cctctccacg ctgcncaaca 420
 cgct 424

<210> 16060

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-E5

<400> 16060

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 ccctcgccgc cctctttcgg ctctcgcct ctgctccacg cgcgacgacg tgtcggcaaa 120
 cactcagtcc atcccaagac tcgcgaggcg atgggtggacg cgtggtggcc tctgctgggc 180
 gcggcgatcc cggcgcgtgt ggccgggtcag tttgtccga tcaagcgccg ccgcgacgag 240

gagcagcgcc tcaaggcggc gcgcgggagg gagaagagct ccgacgaggt attcgtctgc 300
gagcgcgtgt gcacctcaa gcgtatgctc aagaaggtag gggccttctc caaggacccc 360
ataccggaga cctgcgtcac cgtctgcggc gtctctgaac tcgacgcctg cgccgacgct 420
tgcgcgcg 429

<210> 16061
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-E6

<400> 16061

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aagaagttga cccaggcaca gcttgctcag atgatcaatg agaagccaca ggtgatccag 120
gagtatgagt caggcaaggc aattcccaac cagcagatca ttggcaagct cgagagggcc 180
ctgggaacga agctgcgtgg caagaaataa ccaggagcat catagcgaag acaaggcaaa 240
ctgtctgctt attatttgc tggtttggt tctcaagtca tgcggactgt ttgtgttggt 300
acaagagtga attaactgtg ttctcctgaa tgcttgctgc ttgtcatatg agtatatgat 360
ctagctctaa aaaaattgtg atgaagatgt caactgatat gacaacctca taaccagcgt 420
gatcaagatg 430

<210> 16062
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-E7

<400> 16062

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tcccacgggc tggcctccac gccggcgcca atctccacga cgacgtgccg gccggccgctc 120
ttggcgacgg ccgcgcccca gaagaggagc ctgctgctgg cgacggcctc cgagacgagg 180
ggagtcgcgc cggtagggtc cagcgggatc gagacgagca cggtaggtct gggatgtgag 240
gccgtcaccg ggcaggctac ggagggtcaac aaggacacct tctggcccat cgtcgaggcc 300

gccggcgaca aggtcgtcgt cctcgacatg tacaccgaat ggtgcggggc ttgcaaagtg 360
atggctccga aattccagga gatgtctgag aagaacctgg atgtggtg 408

<210> 16063
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-E8

<400> 16063

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agaagtcggc gggcgggggc cctgcttact ggggcctggg cgcgcgggcc tgcgacgcgt 120
gcggcgccga ggcggcgcg cttactgcc gcgcggacgc ggcgttctg tgtgccgggt 180
gcgatgcgcg ggcgcacggc gccgggtcgc gccacgcgcg ggtctggctc tgcgaggtct 240
gcgagcacgc gccggcgggc gtcacgtgcc gcgcggacgc tgccgcgctc tgccctcct 300
gcgacgccga catccactcg gcgaaccgc tcgcgcgcgc ccacgagcgc ctccacgtgg 360
cacccttctt cggcgcgctg gccgacgcgc ccaagccctt cgcctcggcg gcgcgcgcc 420
aagcaaccga 430

<210> 16064
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-E9

<400> 16064

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gcgccgtgcc cgggatgaag gcgctcgaca tgaacgccgc cgaggacgag atcgtgcgcc 120
tcacgcgcga ggtcgtgccc ggcatgatcg tcaccgggat ggaggtcgca gagatcgacg 180
gcgccccgag gatgggcccc acgttcggcg ccatgatgat ctccggccag aaggcggcgc 240
acctggcgct gaaggcactg ggcaggccca acgccgtgga cgggaccatc ccagaggtgt 300
cgccggcgct gcgcgaggag ttcgtgattg cgtccaagga cgacgaggtc gtggacgcct 360
gagcgagcat ccacgcgccca gcatgcaagc agcgtcttat ctgggcccgc gccatcac 418

<210> 16065
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-F1

<400> 16065

cggacgcgtg ggcagccatt acccgagct agcaaacaaa tggccaccgt cctgagcagc 60
ccccgcgcgc cggccttctc cttctccctc cgcgcgcgc cagcgccac tacctggcc 120
atgacccgtg gcggtggcgc cagcagcagg ctgcgcgcgc aggccaccta caacgtgaag 180
ctcatcacgc cggaggggga ggtggagctg caggtgccc acgacgtcta catcctggac 240
tacgccgagg aggaaggcat cgacctgcc tactcctgcc gcgcggggtc ctgctcctcc 300
tgcgccggca aggtcgtctc cggctccctc gaccagtcc accagagctt cctcgacgac 360
agccaggctc cgcacggctg ggtgctcacc tgcgttgctg acccacctcc gacgtcgtca 420
tcgagacgca 430

<210> 16066
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-F10

<400> 16066

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cgatggcagc atccccgcgc gaggaacgtg atcagaatca gccagtgggtg cttgtgacgg 120
ggtgctcgga gggcggcatc ggccacgcga tggcacgcgc cttcgctgcg gccgggtgcg 180
ccgtcgtggc caccggcgcg tcacgcggtt ccatgcgcgc tctcgacggc gaccgcggt 240
tctgctgct ggagctcgac gtgcgtccg acgagagcgc gcgcgccgcc gtggcggatg 300
cgctgcggga gcacggccgc atcgacgtgc tcgtcaacaa cgctgggggtt cacctcgtcg 360
caccactcgc cgaggtgccc atggagtcc tccaccagg tttcgacacc aatgtct 417

<210> 16067
<211> 382

<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-F11

<400> 16067

aggatgtttt gtttgccaag gatatatcac tcgtcaagaa gttctatatg ctctatagct 60
tcttctttgt gaggagagtt gtagcgccga cggctgcctg tattctctac aatgtcatca 120
tccccatctc agtcacaatc ccggagcttt acctaccagt gtgggggtgtt gcetatatcc 180
ccatggtgct taccgtggtc acagctataa gacatccaaa aaatctacac atactgccat 240
tttggtttt gtttgagagt gtgatgacat tgcacggat gagggctgcg atgactggac 300
tgctggagct agaaggattc aaccagtga ttgtgacaaa gaagggtgggg aatgatctcg 360
aggacactga agttcctttg ct 382

<210> 16068
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-F12

<400> 16068

gaatggtgca actatggttt ggcggtgtga gcttatggtt atggctgctt cactgatttg 60
cagcagcagg acaggcgatg ttccacttga agcgactttg agcttctccg gtgcttatgt 120
tatacgtgga gaccatgagg aggtagtttt atgtatacta catgaaggtc gcaatcgatc 180
atagctgtat tgccggccagg ctgctgctgc gttgcggccg gtctctagga tataaattta 240
ttgcctccat ttatttagtc ttaggcattg tgatgtcaat gagaacatgg agggaaacct 300
gtacaccgag tgccgtccgt cggcattcgc ccgacctttt ccacttgtag attgtaggtt 360
ttttaagtc cgggcgggat tagttctgta tctataacctg acagtctggt ttt 413

<210> 16069
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-F3

<400> 16069

cccacgcgtc cgcggaacgcg tgggtttttt ttttttttgc atgaacggat ataattgacg 60
 ttggtttcag taggaataat aataaggccg gccggccggc cggatgatgac agtgacaggg 120
 atatccgacg gatccacgga aagagaagaa gagaagaaac tacatgactg tgcacgcgtc 180
 tacgttgctg tcgttgaaca tgttcacgta cttgagctcc ggcgcgcggg ggtccgccat 240
 ggccctgcggc gcgctgcgga cgaatccgcg gggcgccctc ttgtcgtagg cgccgccgac 300
 gtaggggtag gtggtgagcg cgtatggcac gtagggccac atctcggcgt tcttgccggg 360
 ggccctgacg cgctccagca ccttggcggg ctccacgttg ccggtca 407

<210> 16070

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-F4

<400> 16070

accggcgccc gacatcaagt ccacgcagat ccaccacgag gcgcgccatc ccaagctccc 60
 tttegagccg gagaagctcg tcaacctgca ctccctccacc ccgcgcgcg cagaggccac 120
 cacctccaag cccaagcccc gggctccgcg cagcctcaag aagtagctgg ctggccttgc 180
 tgccctgactg cctggggtaa ttcccttcga tttcaatccc atccaccgac ccgatctaca 240
 atcaatcaaa gtaccgcccc ccctccggcc tgcggtgtac tgtagtctg ctgctgctgc 300
 ttcttatcgt tggttatatt ctgatacatg tctcgcgtga tagatgtgca actatatatc 360
 agtctcgtcg ccggcaacac tggcatgctt aaacatgtgt cgctgctgct ccgtgatgcc 420
 ggcgaccgct gct 433

<210> 16071

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-F5

<400> 16071

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 aaaggcctga gagcgggtga cagctagcgc ctgcgtcttg acgatacgcg ttagcaagta 120

gcaagactca agactcaaga gggatccctt agcaaaaccg gtctcgcaaa gggacacaat 180
 tccctaggaa ccgcacaaaa gcttcctgca atccggcggc tttggcggtg aacctcccc 240
 cttgatcagt agtagaatcg gctgctaaag atttctatct ttattttttt ctcggttcgg 300
 aagggtgccgt gcggcgagcg aaataaatcg ctgcggcgag aatcctgtgg agatgagttg 360
 cgttagggtg caggaccact cataaattct gcctgttcat tc 402

<210> 16072

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-F6

<400> 16072

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 cgggcgatggc ggctccatg atctctctgt cagctctggc ggtggcgctt cagggcctgc 120
 cgccccctcg ccgccgcgcc tctccttcg ccgtcgtctg ctccaagaag aagatcaaga 180
 ccgacaagcc ctacgggatt ggggggtggc tgaccgtcga cgtcgacgcc aacgggagaa 240
 agggcaaggg caagggcggtg taccagttcg tcgacaagta cggcgcgaaac gtcgacggat 300
 acagcccaat ctacaacgag gatgactggt ctcccaccgg cgacgtctac gtcggtggaa 360
 ccactgggct tctgatctgg gccgtcacc tcgctgggat cctcggcggc ggcgcctcc 420
 t 421

<210> 16073

<211> 411

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-006-Q1-E1-F7

<400> 16073

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 gtgggcagcc tggcgaaaagc gtgggcgcag tggacgtcca tcagggcggg gcgggtgttc 120
 ctcggcctcc ccgccgcgcc ccaggccgct ggcagcgggt tcgtgccggc gagcgacctc 180

gtggcgagcagg tgctgccggt ggtcaagaac tccaccaagt acggggggcat catgctctgg 240
tccaggtact acgacgggct cacgggggtac agcgacgcgg tcaagtccta cgtgtgagct 300
agccagcctc gtgtcatgtc gggcgtgcag gagggagtan gactgtanga ggcacatgct 360
tccatgtgcg tgcacgtgcc gggcgttatc atacctatgg gtatactggg t 411

<210> 16074

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-F8

<400> 16074

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gcgaactcgc cgccgccgct ccagcccgtg gcgcctacct cgccggcgctc ggtgtcgcgg 120
tcctcctcgc tgctccttc ctcccagtag ccgagtcgtc ctgcgtgcga gataactcat 180
tggtgagaga cataagccaa atgccgcaa gcagctatgg gattgaagga ttgtcacata 240
taacagttgc tggtgcgctc aatcatggga tgaaggaggt ggaagtgtgg cttcagacaa 300
taagtccagg tcaaaggacg ccaatccaca ggcattcctg tgaagaagtt ttcactgtcc 360
tcaaagggaa gggtagctc ttgatgggat caagctcact aaagtaccca gggcagccac 420
aggaaattcc t 431

<210> 16075

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-F9

<400> 16075

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gccaccgcgg ccgcgtctag cctcctcaag tcctccttcg cggggtcccg gctcccggcc 120
gccacgcgga ccacaccggc gtccctcgtg gtggccaccg gcccgcgcg cgccggcgcg 180
gggcccctct gcgcgtccat gtccatgtcc tcctccaacc cgccctacga cctgacgtcc 240
ttccggttca gcccctcaa ggagtcctc gtgtcccgcg agatgaccgc tcgctacatg 300

acggacatga tcacctacgc cgacaccgac gtcgtcatcg tgggogccgg ctccgcgggg 360
ctgtcctgcg cgtacgagct ctccaaggac cccgccgtga gcatcgccat cgtgggagc 418

<210> 16076
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-G1

<400> 16076

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cagcggagcg cccctcagat ccaaggagcg ctgcacgagc gcaagagcag gttgttgaga 120
aggggaatat aatcatggat atcatgcaga ctagtgactc ttcacatcat ggaattgtag 180
aaaatagccc gtacagaatt ccatatgaca gacatgcaga aggtgggtcaa cttgggtgctt 240
catgggtatct tagtagaaaa gaaatagagg agaattccct ttcgaggaga gacggcattg 300
atctgaagaa agagtcttat cttcgcaagt catattgcac atttctgcag gatttgggga 360
tgagacttaa agtacctcaa gtgacaattg ctactgctat agtgggtctgt c 411

<210> 16077
<211> 406
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB83-006-Q1-E1-G10

<400> 16077

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tatacatgga tccacatcca aataaactgg gatgtgtatg tgtgggtgtca tgctgtcatc 120
attactattc cctgactgac agttaactaa tacaagagga aatccatcag gaacacctac 180
taattaaagc tacagctaca gcaccagcag taggcactat actaagcaga agcaacacca 240
aattaaacaa gacatatatc tcttggtttt gctactagaa tcatatgcat gcgtgggtgct 300
ccatcgctct cagcgagcgc cgctatcaat tcattaatta gcttggtgaaa aaacanagct 360
aatgaattaa ggggggaggg gacangaata tatgcaatct agtgaa 406

<210> 16078
 <211> 289
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-006-Q1-E1-G11

 <400> 16078

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 ccgccgtctc cgtgaagccc gtggccatca agggctctcg cggcagctcc atctccggaa 120
 ggaagctcgc cgtcgccagg ccgtcggccc gctccatccg caggccccgc gcagccgccg 180
 tgggtggtcaa gtacggcgac aagagcgtct actttgaact cgacgacatc ggcaaacacc 240
 accggacagt gggacctcta ctgttctgaa ggcgccttcgc cctaaaacc 289

<210> 16079
 <211> 390
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-006-Q1-E1-G12

 <400> 16079

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 ctccctagct ctcgttgtca gcaatggcca ccaccgccgc gtccagcctc ctcaagtcgt 120
 ccttcgcggg ctcccggtc ccttcggcca cgcgcaccac caccgcgtcg tccgtggccg 180
 tggccacccc gcgcgccggc ggcggcccca tccgcgcgtc catctcctcc tccccacca 240
 ccggcgtcaa gaggtccag gacatcgga tgatcagcgc cgtgcccggg atgaaggcgc 300
 tcgacatgaa cgccgccgag gacgagatcg tgcgcctcac gcgcgaggtc gtgcccggca 360
 tgatcgtcac cgggatggag gtcgcagaga 390

<210> 16080
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-006-Q1-E1-G2

 <400> 16080

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tagatgccac ataaaaatgt ttctaaattg ctagatagtt tgattgaata tatatacaaaa 120
 ttttagatga cataccctac cggaaaattc tagatcagtg cttgcttcgt ctttttttat 180
 tgccatctac tgtcacgggt aaccgtataa tacatacctc atattaaccg ctaaaacttt 240
 gacaacaatt ttctcggcg tagtacaaat ccctcatatg acgcggtggg taaagaggag 300
 gtagtggttt ggtcgactca agcaaccctt ttgacccttc tagtccagtc gacagtaggt 360
 acgctgcatt caacccttta cccttttgat aagccacaat ggtatggtca actttggggg 420
 gctcatggca tgga 434

<210> 16081

<211> 412

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-006-Q1-E1-G4

<400> 16081

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 cttttcagca cctgcaccaa tccgttgccg tctgtctccc ctctcgctccg ccgccagcac 120
 ccccgcgccg ccatgaccac ggactcctcg gccgcctcgt tccagaagat ccagatccag 180
 cgcgaggaca ccacttttga tgcttatgtt gttggcaaag aaaatgctcc tggaattgtg 240
 gttttgcaag agtgggtggg agttgactat gagataaaga accatgcat ccacatttcc 300
 caacttggtg gaggatacaa agcactcatt ccagatttat accgtggaaa agttgctctg 360
 gatgttgctg aggcacaaca tctgatggag ggtctcgact ggcanggtgc ag 412

<210> 16082

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-G5

<400> 16082

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 agcgccatgg tcacgtcgac gaccgccgcc gccgtgctgt ccccgccgtc cgtggccggg 120

cttcgcctgg cgccgtctcc ccgggcgcgc gtggcggtcc gcgcggcgcg ggcgcggcgg 180
 tccgtggcgg cgcgcgcgga gctgagcccg tcgctgggtga tcagcctgag cacgggcgtg 240
 tcgctcttcc tgggcccgtt cgtcttcttc aacttccagc gggagaacgt ggcgaagcag 300
 gtgcccgcgc agaacggcaa gacgcacttc gacgcggcg acgagcgcg caaggagttc 360
 tcgggcctgc tcaagtccaa cgaccccggtg ggcttcaacc tcctcgacgt 410

<210> 16083

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-G6

<400> 16083

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 aggtgttcat tgagaattcc tactacttgc atggcttctg ggctgggttg gtggataagt 120
 atgaggagat gatggagaat caccaccag gcctcggcga cgagcgggtg cctttcgtga 180
 ctcactttgt tgggtgcaag ccatgtgga gctatgggga ttaccagtg gagcgctgcc 240
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 tctcacacaa ggggctggaa agccccaaga tcaagagatt cagggatcag acaactagac 360
 caattaatga tgtggagaac ttagatatga aggccaaaat atctacaatt tcctgaaagt 420
 tcagatga 428

<210> 16084

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-G7

<400> 16084

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 aggaaccctc gtaagggttaa gtggacaaaa gcatacaggc atttgcatgg caaggacatg 120
 acccaggata caacctttga gtttgagagg aagaggaaca ggcccgcgcg ctacgaccgc 180
 aatttgacgg agcagaccct gaaggctatc ccgcttatta caaagattag gcatgatcgt 240

atggaaaaac acatctcaaa cagacataaa cctggtaaac gcaaggagat ggaaaaggat 300
 tccaaggagc tggagcagga catcgccatg ctcccgaaga agcttattag caaccatctt 360
 gcggctgaga aaacgaaggt caagggtgaa gttgttc 397

<210> 16085

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-H1

<400> 16085

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 gagctacggc aacatgctgc agaacaaggc tttcggtggt ggtacggacc gatctttggt 120
 tggcaacaga ctccctccct atgtgtacct ccacctggac ggcaactatg gtttccacga 180
 caaactcttc ttctgcgagg acgaccagca gttcctgcga ggtgttccgt ggctggtcac 240
 gaggacggac atgtacttcg tgccgtccct gttcctcggt ccagctttcc aggacgagct 300
 cggcaggctg tttcctgaga aagacaccgt cttccatcac ttggcgcgct atcttttcca 360
 tccgacaaat ggcgtctggt at 382

<210> 16086

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-H10

<400> 16086

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 atcttcttcc cctcctcaag gaagaaaaga agctgaacca tggggaagag aaagtcagct 120
 gctaagccac ctctaagaa gcggatggac aagcttgaca ctgtcttttc ctgcccattc 180
 tgcaaccacg ggagtagtgt tgagtgccga attgacatga agaactctgat tggcgaagca 240
 tcttgtagaa tctgtcagga aaacttcagc acaactgtta atgcactcac tgagcctatt 300
 gatatatata gtgaatggat tgatgagtgat gagcgtgtca acactgttga aggcgacgat 360
 gatgcgtgag cttgccccat gcgatgaaac tgttacctac aatcgtaatg taatgtgctg 420

gtattctcga atgcca

436

<210> 16087

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-H11

<400> 16087

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ccaagagaag aaaaaggagc agagcctcaa acaaaaattc gacagatgag ttctcacaaa 120

ttcgtaaacg ggtagatac attttgaacc gaatgaatta tgagcaaagc ctaattgaag 180

cttatgctag tgaaggctgg aaaaatcaaa gtttggataa gataagacct gagaaggagc 240

ttgaacgagc caaatcagaa atcttacgat gcaaattgag aatacgggaa gtcttccaaa 300

atattgattc tcttctatcc aaggggaaaa ttgacgaatc tttatttgat tctgaaggag 360

aaatatcttg tgaagatatc ttttgtgcta cttgtggttc gaaaaatgct acattg 416

<210> 16088

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-H3

<400> 16088

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ggcgggtggag gacctgatcg tgccggcgagg gcgcgtcggc ggcgtggtca ccaactgggc 120

gctcgtgtcc atgaaccacg acacgcagtc gtgcatggac cccaacgtca tggaggccaa 180

ggtggtggtc agctcctgcg gccacgacgg gcccttcggc gccaccggcg tcaagaggct 240

ccaggacatc ggcgatgatca gcgccgtgcc cgggatgaag gcgctcgaca tgaacgccgc 300

cgaggacgag atcgtgcgcc tcacgcgcga ggtcgtgcct ggcgatgatcg tcaccgggat 360

ggaggtcgca gagatcgacg gcgccccgag gatgggcccc acgttcggcg ccatgatgat 420

ctc 423

<210> 16089

<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-H4

<400> 16089

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gtgattctgt tccctccagg taggctgcca tccctccagc gttggcacia gcggtcaggc 180
tgccagggtg gggcggttag ctgccacctg cacctgccaa gctggggcgc tgggctgcc 240
tccctccagg agccgacgct gccgacctat cgctggtcag gttagtgate tgaaattctg 300
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ctgaagtcaa ctagatggag ttcaacttac aagatgttgc ata 403

<210> 16090
<211> 195
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-H5

<400> 16090

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gaagagtggc tgtttgacac cagagattaa ttgttacttc ctccgtctca gattataata 180
tattttgatc ttttt 195

<210> 16091
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-H6

<400> 16091

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cgaaagagag aagaacaatg ctagtatgcc tcttattcat ggaaaggcat tataccaacc 120

taataaaata aaattaagga aacctgcaaa acttttgaaa ctccggtggg tccaatttcc 180
gacaatgcga aggaactgca ttccatggta atgaagcttg gacaccttcc aagtcttcat 240
gctgggaatc ttcacaaggc tctagaagtt ccaggagaaa gggaatctat gagatcccag 300
gatttgctct caacacatcc tgatcttttg caaagtgatt catcaactga gaaggataga 360
gcctctcttg gcatggattc tggctctcca gatttggaat tgaatactga catttgtttg 420
caagat 426

<210> 16092

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-H7

<400> 16092

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gtcatcatgt gagaaaattg aaatggcgag atctcttaat ctaatcgggtg caccttgga 180
gaacaaagct ttaagatctg atgagcacag acctgtgggc cgtccagaag taattctctg 240
tggtgaaatt tatcagaaga catatgcctc tgttaagtcc caggaacttc ttttgctggg 300
aagccaattc cttactgac tgagggacaa catttattgt ttgactgata aggtgatgaa 360
ggtggctggg caacacgac attctgggta ttttcttatt gaggacacgt tctacaatga 420
tacgagac 428

<210> 16093

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-H9

<400> 16093

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gcggcgacga cgagtacgcg acggtgctgt cggcgccacc caagcggccg gcggggcgga 180

ccaagttccg ggagacgcg caccctgtgt accgcggcgt gcggcggcgc gggcccgcg 240
 ggtgctgggt gtgccaggtc cgcgagccca acaagaagtc gcgcatctgg ctccgggacct 300
 tcgacactcc cgaggccgcc gcgcgcgcgc acgacgtg 338

<210> 16094

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-A10

<400> 16094

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 ttgtcgaatg atagttcttg cgttgctaac tgtcaggctt ttgaaagcga gtcaaagacg 180
 gtccagctcg cgaaaggtag cggcctgcct gcgcagcaga acaaacctag ctacgaggca 240
 ttaattcggt tgatgtgcct ttttgactc aaatcgattc tctctctctt tttagaatat 300
 aaaaaacaag taaaagatga aaggtaagga taagatcaat ca 342

<210> 16095

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-A11

<400> 16095

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 tttactgcag gcacggtggt gtcgataaag catcatctgt attcaaggaa atgagagcaa 180
 atggatgcca gcctaattgt attacttata gccacttagc attgggttgc ttgaaatcag 240
 gtcttggttaa agaagctttg aacacaatag atatgggaaa gaaggaagtc gtcactaaaa 300
 aggtgaggag ttcaacacca tggttggaga ccacacatct gttgcttgag aactttgcag 360
 aaattggaga cttggaaaat gcaaagagac tgtacagtga actgaatgaa tccaa 415

<210> 16096

<211> 386
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-007-Q1-E1-A12

 <400> 16096

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cctccatggc tgcggatttc cgcacccttg accgcctcct gcccgccgca actgaggagc 180
cgacgacccc gcagggccac cctcccaata cgggtgtcag cccccccacc gtccccgacg 240
ccaccacaga tggcctccgc ttctggcagt acatgtctgc cggctccgtc gccggcgctc 300
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cgccctgccg cccgacgcta tctctg 386
  
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 <211> 430
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB83-007-Q1-E1-A2

 <400> 16097

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accagagccg gtacacgctg gaccggctgc tggggaagat gtcgtgcccg ctgctgctgc 180
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ccgagcccag cctacagacc gtctgatgga tcgagcccaa agggcttagc gaatgctant 420
ccaagaatac 430
  
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<210> 16098
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-A3

<400> 16098

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aaaagttggc cgataaattg gatcagcaaa aggcctctatc tggacaaata agaaataatg 180
ttactgatgc acgtctgaag cttgagaata ttggttcaga aattaggaac atcaaagaat 240
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ctggtgtgat gtacctctgc caattcatac agcagaatgg tggaaagcct ccggatcgcc 360
tggaaggctc caaagtgact acaaagcgtt ttggagggtca aaagttcttg cagggattgc 420
aactggcaat agaatc 436

<210> 16099

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-A4

<400> 16099

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gcgagtgtg ccgaaggcgg tgaccttcgt gacgggcaac gccagaagc tggaggaggt 120
ccgcgccatc ctcggttctt ccgtccatt ccagtcgtc aagctcgacc tgcctgaact 180
gcaaggggag ccagagtaca tatcaaaga gaaagcacga atcgctgcat ctgaggtgaa 240
tgggcctgta ctggtggagg acacctgcct atgttttaat gcgctcaaag gcctaccaag 300
accctacata aagtggtttc ttgagaagat tgggcatgaa ggttttaata atctgttaaa 360
agcttatgaa gataaatcag cgtttgctat gtgc 394

<210> 16100

<211> 417

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-007-Q1-E1-A5

<400> 16100

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taaaccatgg cgtcctccgc gttcctcaac gctctcgtcc tccgatcgcc atcaccgtcg 120
ctctcgtcct cgtctaaccg ccgcagcacc ggccgcttcg cgttcccga cccaccgcgc 180
ttcccatgcc tgcgtttctgc gcgtcgactc gtccttgcca gggcggcggc agcgccggcg 240
ccgggcatg gccccgagga cgagtggggg ccggagcccg agggcggttc cgctgtcacg 300
ggggccgcng tggcggaggc gccggaggcg agagaggctg cggagctcaa ggccgagcta 360
aaggacncgc tgtacggcac ggagcggggc ctgcgggcgt ccagcgagtc acgagcc 417

<210> 16101

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-A6

<400> 16101

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ccgctcaggg ttacgacaaa tggcgagtgt gagctctctc gtctctccta tataaagggg 120
ggacgcgcct tggcgcaaaa gcaagccccg cgcgccaatg gccaacggag cagaaggcgc 180
cgccgcgggt gaccgcgagg ctctccagaa cctcttctt gacgtcgcgc gcgtgctggt 240
ggtgttcggc cggcgaaacc gtgctggcgt tctcagcct cctgctctgg ctgctcggcg 300
tg 302

<210> 16102

<211> 412

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-007-Q1-E1-A7

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caacaaagaa ccttttcaag aaccacaact accactttca aggatgctga ttgaagattc 180

tggtagctcc aaagatttga agaattctctt cacttcaaca tcggaccaac catttttggc 240
 ccctcccaac aacttggtgt caatgaagca ttcagggact gtaacgataa aggcgagttt 300
 taaggaagat attgtgaggt tccgtttccc atgctcaggt ggtgttattg tattgaaaga 360
 ggaggtancg aagaggctaa ggatggatgt tggcacgttc gatatcaagt at 412

<210> 16103

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-A8

<400> 16103

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 agacggcggc gcgcacggag gagcgcattg cggggggctg cgccatcttc gtggacgtcg 120
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 tctgcacct cgacctcaag gagatcatcg acttctacgc ccatgacgcg tgactggctg 240
 atgcatecgc agctcctcct ccctggacac gtactctgca ccacctgcgc gtttcttcca 300
 tggatggata ttcttttttc ttctattctt cctttcgtcc tctcttgccg taatgcgcgt 360
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<210> 16104

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-A9

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 gctgaggtat ccttgtaaac actatgctta tccttgtagt ctgtacacta tcattcattt 180
 gatgagcaat aagctgtttg gtaactcagt ctcacctgga taaggagaaa ctacgatttt 240
 ccctgcattt ggctcgattt atctattcct ctggtgtcac tct 283

<210> 16105

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-B1

<400> 16105

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catcttttga aattctgac gactgaggac tccatttggc aaaacgatta caagcctctc 120
aaagaagaca gtttgctttg ctatgttttt ggatgaagtg acattgcaca ctttagaatc 180
tgaaggccag aaaatggaca gcatgggttt cattggcata tggaagatca tattgattaa 240
gaacatgcct tataatgaca tgcgtagagt ggggaaaata ccaaagtttt tggcacacag 300
gctattccca tcaacgaagt tctcaatctg gtttagacagc aaactgagac taaaaactga 360
ttctatcctt atcctggagt atttcc 386

<210> 16106

<211> 251

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-B10

<400> 16106

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atcctgttag aaatgctgac cggaacctt gaaatgcaat ccatcctgga cgtatatgaa 180
aagcaagcca aattcctgca aatggtttag ggcagccttc ggatggaaaa gggctaatac 240
tccaccttat g 251

<210> 16107

<211> 403

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-007-Q1-E1-B11

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 gcatggcgca ccggaagatg aggaccgcca tgccggtgat cttgggaatg tgacagcggg 180
 agaagatggt gttgttaatg tcaatattac tgacagccag atacctcttg ctggacccca 240
 ctogatcatt ggccgagctg ttgttgcca tgctgatccg gatgaccttg gcaaagggtg 300
 acatgagctt agcaagagca ccggaaatgc tggcggacgt gttgcctgtg gtatcattgg 360
 gctccaaggc taaagcgggt aacctccgag gcanacacca tag 403

<210> 16108

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-B12

<400> 16108

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 cttcaagtta aaccccttcg agcatcttaa gttgtctttt gattcatcac cagatgaagt 180
 gaaaaagcaa tataagaagt tgtcaatgct ggtccaacct gataaatgca agcatcctca 240
 ggcacaagaa gcttttgcag ctctggcgaa agcacaacag ctcttgcttg atccacagga 300
 aagaggctac attcttgacc aagtactgc ggcaaaagaa aaattttggg gacagcgga 360
 aaaggagctg aagaaagaca gtgcgtccaa gat 393

<210> 16109

<211> 58

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-B2

<400> 16109

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<210> 16110

<211> 409

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-007-Q1-E1-B3

<400> 16110

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aattcgttgg agatttggaa gcttttgagg aacagagagc atgtccttga gatgttgaaag 180
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tccttaagcc ttaaccagct cactaccatg tttgatctca gcgagcagca tgcccacagc 300
attgttagca agatgatgat gcatgaagag cttcatgcta gctgggacca gccacaacaaag 360
tgcacgtat tccatagtgt ggaccaaact aggccttcang ggctactct 409

<210> 16111

<211> 385

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-007-Q1-E1-B4

<400> 16111

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agtacgagag ctagtcggaa cgagaagtac gcactgctcg ctacgcctga cgcagtanac 360
gtcgcagggg tatgatgggc agagc 385

<210> 16112

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-B5

<400> 16112

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actatgaatc gggctctgctg gaatttgatc ctgttaagca tcacaatact tactgcccac 180
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cagcgccctc tggttggcag ctaacaatag atgcagtcga caggtaccaa tcacttggtc 300
aagcccaaaa tcaaataatg caatctgatt ctgcagcttc attatatatg caggatgacc 360
aaataactca taaccgc 377

<210> 16113

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-B6

<400> 16113

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gtcgcagtcg ttcgcgtcgc tggcggcggt gggcggcctc gaggacctgc ccaagccgcc 180
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tggccctccc tccgcgaccg gcaggaagca ggcgtccagg gctcggctga cgccgccggc 300
gctcgcctcg gcgccgagaa ggctggtgcg agc 333

<210> 16114

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-B7

<400> 16114

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gcgtcgcctc cgcccgga gtgtcccgcg tgccttgctt tcccgcgct tccttcacg 180

cctcgcgccc ctctcttctg gcgcggctcc cggccaggcc gcgggcgcg gcgccgccgg 240
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aggaagatga ggaagggtc gggggcgggc gaggctgggg gaggaggac gcggggccc 360
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<210> 16115

<211> 60

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-B8

<400> 16115

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<210> 16116

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-B9

<400> 16116

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aggctgaagc tagaggcaaa tgggtgctgc aaaccgccac cggaaaatac cattttaatc 180

gctgcgttga ctcgggttgg gtcgacaata ttgggttctg tgcgagtaat gccggttgca 240

tcattatgga ggacagatgt ggaggctcgtt ggccagtgcc tgctcgtgat gcgctttctc 300

tggatgtcat ttgattaatt ataagcaagt acgtgaagtt aagaaacgag ggccagacga 360

ctgtcgtcca gcgattgggt atttgtgaac ttgtcgtttg tcttcttatt tc 412

<210> 16117

<211> 186

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-007-Q1-E1-C1

<400> 16117

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cccttcccc cgggggtttc ccttggccct gggggcaatg ggggttccag tggaaccctt 180
aaggga 186

<210> 16118

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-C10

<400> 16118

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gaatcctggc agccatggat atactgctag gttctgggag attcttggcg cgacggactc 180
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gtgaaacctc tgctgactgg gacaaggcat gggctaagtt caagaagaaa ggaagagga 300
ccctcttttc tgatttctca ccagacaagt atgtgacctg gaaccacagg cgcagcgagt 360
atccgttgtc agaagaggtt gatccaatca agagaactga aagatctaac ttga 414

<210> 16119

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-C12

<400> 16119

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gccagccgcc cggcgttctc caccagcttc acgcggggca gccgggtgtc ggcgaggaac 120
cccctgatga gcaggaacct ggagaggaat ggcaggatca cctgcatgac gtttccccgg 180
gactggctgc ggagggacct gagcgtcatc ggcttcgggc tcatcggtg gatggggccg 240
tccagcgtcc cggccatcaa cggcaacagc ctcaaggggc tcttcttctc cagcatcggc 300
caggagctgg ccacttccc cagcccccg ccggtcacct ccagttctg gctgtggcta 360

gtgacgtggc acctgggcct gttcatcgtg ctcac

395

<210> 16120

<211> 383

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-007-Q1-E1-C3

<400> 16120

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cttctcggcg ccgtgctcgc gcagtccagc aacaggcacc accaccacta ccaccacgcc 120

catgtccaag gcaaagggca gggagccgga ggaggaggag gggagctggc gagccgggcg 180

aaggcggcgg cgcgcgctg gccgtgctgt gacagctgcg gcgggtgcac cagatcgag 240

ccgccgggt gccagtgcct ggacgcggcg ccccgcggt gccaccggc ctgcaggac 300

tgcgtcaagt ccagcctcag cgccgnaccg ccgggtgtta cagttgcatg gacgcgtccc 360

caactttctg cagcgccgct gca 383

<210> 16121

<211> 418

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-007-Q1-E1-C4

<400> 16121

gtagaattca caagaatgtc aaacttgctg agaaagtann cagacaagtc tttaagctgg 60

aacctgagaa cacagggtac tatgttcttc ttgccaacat ctatgctgag gctgagagat 120

gggaggctgt caagaagctc aagaacaaga ttggtggtcg agggctccgt gagaacactg 180

gctacagttg gatcgaggtc agaggcaagg ttcattgtctt tattgcacat aaccggaatc 240

accagactg gaacaggatt gcagagtttc tggatgatgt tgccagaagg atgcggcaag 300

aaggccatga tctaagana aagtatgctc tgatgggtgc cgatgatgca gtgcatgac 360

aggcattatg tgggcacagc tcaaagctcc ccgtccatt cgggtgtgctg aatttacc 418

<210> 16122
<211> 251
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-C6

<400> 16122

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ccctctacgg ctcggtccagg ctgcccgcga ggcgccaccgc caccgcccgc gcccttatct 120
gaattactag aatccgggct cgtagatgct ggagtacaca gtacagggaa attgcccact 180
tttttcatca acttaagttt ttagattaaa cttttttgaa acaatcagac aggagatctg 240
tcttatatat t 251

<210> 16123
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-C7

<400> 16123

gttaggaacg agttcaagaa tgacatcgct tgttacgttg actacgtgtc gactgggtgt 60
catgttcggc tgttgtccaa ggtgtagaat ggcattatcg gtatgcgacg ggttttcttc 120
accccgcgat agccagcggc ttctgagtac cggacgttcc tgtcagggat tctcgctcag 180
gcaccgcgca gtccttgcg cgactacctg tacgctctcc atacgtcggg ctgctgatct 240
atatttctcc tgccaacaat gtgcgctcta gcctgatcgc tttaacgagt ctggttacct 300
gtgctactag tacgacgtga cagggtgcaa cacacatagc ctcatatccg tgacctgcgc 360
tcggaacatt ctctccacgc 380

<210> 16124
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-C8

<400> 16124

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tcccgttgct tggctataca aggaacagta tgctcttaat gggatgggaa atggtcggat 120
 tgtatttacc atccacaatc ttgagtttgg agcgcatcac attggcaagg caatggcaca 180
 ttgtgacaag gctacaactg tctctgatac atattcaaag gaagtggctg gacacggagc 240
 tattgcacct cactactata aattccatgg aattcgaaat ggaattgac ctgacatttg 300
 ggatccatat actgacagat ttattccggt tcattataca tcagagaatg ttcttgaggg 360
 caagagtgct gcaaaaaagg cattgcagca gatgcttggg ttacaacaaa 410

<210> 16125

<211> 219

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-D1

<400> 16125

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 gtgcggtggc tcgttttgtg atgagtggga gagagaggat gacaagatcg atcctttgtt 120
 aatggagatc tcgttaatta ggagagctac cgctgggact tgggtggtttg taatatatga 180
 tccaaccagt gatgaatcaa tgcattcact tgtgtacac 219

<210> 16126

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-D10

<400> 16126

cggacgcgtg ggcagataag gaagccagcc ggcaagggga gccactccgg cgtcgagaaa 60
 cctaaggcga agcccctcca acactcctat caacccaatg gcggccttcc caacgggcaa 120
 gcacaacacc ccccgcaacc ctggcatcgc caacttcttg ccacccggcc gcccgccggg 180
 cgccggcccg atggatgccg ctgcgctgct cgccgccggc cctgggcctc aggggaggag 240
 cgcgttctcg gcggagcgcc acgctacggg tggaagctaa gaagcaaact ttttcttcat 300
 ttgatgagtt gctggagaag tctgagaagc cattgttagt tgacttctat gcaacttggg 360
 gtggtccatg ccaatacatg gttcccatac ttcaagaagt gagtgagaag tt 412

<210> 16127
<211> 126
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-D11

<400> 16127

tctaaagtga ctctgtctaa tatggacgtc atccggtagt gggagccact cctgcgtcaa 60
gggtcgtagg tcaagcacct caaccactcc aaccacacca tcggtcgact tcattacctt 120
catcaa 126

<210> 16128
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-D12

<400> 16128

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ggtgaagcag ctggaggacc aggcggcggc catcatgaag gcggcgcgcg ccgagatcgc 120
ggcggcgctt aacaagatga agaaggagac caccgcggag ctggaggcca agctggacga 180
gggacgcagc cgtgtggagg ccgagctcgt agaggcgctc gccaacctcg aggcgcagaa 240
ggaggaggct gtcaaggcgc tcgacgcca gatcgccctc ctcaagtgatg agatcgtcaa 300
gaaggtgctc ccattccgct gatgaaacca aaccggccct gccttaccct acgactatag 360
ttacatgaac atcataaatt aatgataatt ttgaagaaat ttggcgatga ctc 413

<210> 16129
<211> 310
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-007-Q1-E1-D2

<400> 16129

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tactgctacc agtacaacag cgtcagcaac gcggagaagg agaaaaggcc gccgctgagg 120
 aggggaggcg tcaagctcca gatcgtgaag accctcagca acctcgtcgt ggcgcccagc 180
 aacggcagcg actccaagca agcggaccgc aacagcttca caagggagcg aagctacaac 240
 tgaaacgaac tgtaccttca gtatttggat acagatgtca accttgtgtc tgaagaactc 300
 cgctttggga 310

<210> 16130
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-D3

<400> 16130

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 cccagtggaa acacgttaaa tttcaggata accaagctaa tgccatgaag gaaccaggaa 120
 ccggtgggta tggctatggg acgaaaaatg acaagaataa ggatgtggat acaatagctt 180
 cggacttcat caagctgaag cacaaggctt gggcactcca gaagagcaca accatgtacc 240
 aaccttctac ctaaagggtg caatagttca agaagttgat actatatact tatgcttgtc 300
 tctgtatagt ctataagtc taattcaa ataacaggtgct gcttgcagcc ttggatattt 360
 gcggatgcgg agtgaagtta ccatggcatc cttgctaaga ataagaaagt aatgt 415

<210> 16131
 <211> 300
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-D4

<400> 16131

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 aggttctcta tcgagaaacc caagtatggg gatccacatg tgaaggccaa tgctctgctg 120
 caagcccatt tttcaaggca cacagtggtc ggaaatctgg cagctgatca gcgcgagatt 180
 ctcttttctg ctcataggtt gctccaggca atgggtgatg ttatatccag caatgggttg 240
 cttagtcttg ctcttagtac aatggagctg agtcaa atgg tgacacaagg catgtgggat 300

<210> 16132
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB83-007-Q1-E1-D5

<400> 16132

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 cgtggtcaga aggaggtcct tcaccgtgcg cgcctctctc cgcaaggcca ccggcaccgc 120
 cgccgtggca atgggtgccg gcgccttgcg tgccggcggt gccatggccc aggaggtgct 180
 gctggggcga ggcgacggcg ggctcgtctt cgagcccagc cagttcaccg tcaaggccgg 240
 cgacaccatc acattcaaga acaacgccgg cttcccgcac aacgtcgtct tcgacgaaga 300
 cgaggtgccg agcggcgctc acgccaccaa gatctcgcag gangagtacc ttaacgcgcc 360
 aggcgagacc tactccgtca ccctcaacgt gccgggaacc tacggcttct actgcgagcc 420
 gcatc 425

<210> 16133
 <211> 384
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-007-Q1-E1-D6

<400> 16133

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 agccgccccg cgcagccgcc gaggccgag gggaggccaa gtctgtgggt ttcttgaga 120
 agtaccggc cctggtcacc ggcttcttct tcttcagtgt gtacttctc aacgtcatat 180
 tcaacatcct caacaagaag atctacaact acttcccata tccatacttt gtgtccttga 240
 tccatctagt agtgggtgtc gtatactgcc tcatcagctg gagggtcggt ccccccaagc 300
 gagcgcctat caatggcacg ctctcaagc ttctctttcc agtcgccttg tgccatggta 360
 ttggtcacat cactaacaat gtgt 384

<210> 16134
 <211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-D7

<400> 16134

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gcccgcctcca gctcccgcg cagcccctac gccgggtgata gcagcgcccc ccgctgcgca 120
agccgcggcg gttgaccagc gcgcctctg ctccactggc cggatcgggc cgcaggcgcc 180
cgccgtggtg ccgacgaaga agatggtgtc gctccccgct gcctctccag ccaacgcgcc 240
cgtgttcgcg cgccgggtgt tttctgccg ggtgcccgcc ttggtgccga cgaggaggac 300
ggcaacggtc ccggcccaat cttcagccaa agcccccgctg ttacctggcc tggcggtt 357

<210> 16135

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-D8

<400> 16135

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cagtgggact cctcctcctt tggcttcaca agcccgagc cgtggggaaa gccactgcc 120
gttcccggcg acgacggacg ccttgtgcca tggacccttc cggatcatcag cagcatccac 180
gacgtggtgc acggcctaag acagcgcacc atgatggagc tgtctcgtcg ggacggcccc 240
ctcatgttcc tccgccttgg ctacgtcccg acgctggttg tgtccaacga ccacgcaacg 300
gagctggtga tcaagatcca caacctc 327

<210> 16136

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-D9

<400> 16136

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gaagaccgcc gtcgcggtcg cgtacacgaa gccggggcgc ggcctgatca aggtgaacgg 120

cgtcccgatt gagctgatcc gaccggagat gctccgcctc aaggccttcg agcccatcct 180
 gctggcgggg cggtcccggg tcaaggacat cgacatgcgg atccgcgtcc gcggcgggcg 240
 gaagacgtcg cagatctacg ccatccgcca ggccgtcgcc aaggggctcg tcgcctacta 300
 ccagaagtac gtcgacgagg ccgccaagaa ggagatcaag gacatcttta cccgctacga 360
 tcgcaccctc ctcgctcgctg acccccggcg ctgcgagccg aagaag 406

<210> 16137

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-E1

<400> 16137

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 acgacaacga gggcctgttc gtggccgcgg cggggctgct ggggctcggg cgcggcgggc 120
 tgtcgttccc gaccagatc tcccgccgt acggccggag cttctcctac tgcctcgctc 180
 accgcacctc ctccggcgcg ggcgcgcgc cgggctccca ccggtcctca accgtcagct 240
 tcggggcggg ctccgtcggc gcgtcgctcg cgtccttcac cccgatggtc cgcaaccgc 300
 gcatggagac gttctactac gtgcagctgg tgggcatcag cgtgggcggc gcgcgcgtcc 360
 cgggcgtggc cgagtccgac ctccggctgg acccgt 396

<210> 16138

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-E11

<400> 16138

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 aggaatactt tcaaaagtca aatgcaactg atgcatcagg gaacatgggt cttagtga 180
 ttggtgtgca cttcagcag aagatcaagt cccattttta ggacatagga gtccattctg 240
 atgtcaagta tattgatcca acatacatgc tccgcgctgt gcgagccaat gcatccgatg 300

ccatcctgtg caccgtgctt ggtcagaatg ctgttcatgg tgcctttgcg ggtttttagcg 360
 gcatcacaac cggggtgtgc aacacacaca atgtgt 396

<210> 16139

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-E12

<400> 16139

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 ctggcggtt cttcttcctt tcttcccaa gtcctcttcc cggaggaatc atgatcgtct 120
 gcgctcgccgt tgtcggccac cagaacaatc cgctgtacct gcagagcttc acggaggcgg 180
 acgacgccct caagctccac cacatcgtcc actgctctct cgacgtcatc gacgagcgag 240
 tgagcaatcc taagaggagt gcacctacat tgaatgagac atttttgggt cttctatacc 300
 caactgagaa ctacaaagtg tatggctatt tgacaaacac aaagggtcaaa tttatcatgg 360
 tcacgactga tcttgatgtc aaagatgcag atgccccgaaa tttttt 406

<210> 16140

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-E3

<400> 16140

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 ccctgctgtc gcggccgtga catgggatgg gaggaagctt cccttcggtg aggtaatcaa 120
 gagacatgcc attgaggagc attttaccg gttcttgcac tatgaattgg atgcaattag 180
 aaaggctttt gcaaccttgg aaaagggtcaa ccttcccaa gttacatcca tagtggtgca 240
 aaagcgccat cacacagtgt tttgccctag aattcatcgt acacacagac acccagatcg 300
 acgtggaaat attttgcagg gatgatctat a 331

<210> 16141

<211> 359

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-007-Q1-E1-E4
 <400> 16141
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 gagacccagc agctgcagct ggcgagggcc aggtccacgt cgggggaggc gggcatcctc 120
 ctccactcgg cgtcggagag ggccgagcag ctggcccgcg ccagggtccac gggcatcctc 180
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 ggcggcggag gaatgcaggc ggtgaagatc agcctggagg agatggcgcg gatcaggag 300
 gagcagcggg ttatcgagcg ggagatggaa aaggggggtg tgtacatcct cggggagag 359

<210> 16142
 <211> 424
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-007-Q1-E1-E5
 <400> 16142
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 agatgggctt cactactga atgtcggta gccaccagac ggatggcgta gagggacagc 120
 aatctcttcc aatgccagat cccagagaag cagttgggta tcctaagtgc aagcaaagtg 180
 aaaagataca agagctgcaa ctgagcaaga ttggagtggg acagccaaaa tacaatgaag 240
 ctgtcacttc acatctaaca cactatgttc gtcttcgctg atgcatgcac tacaagttgt 300
 aagtcaagaa cttagtatct tccatgcata tgggttatcg ttacttttgt cagtatctca 360
 gaccgtgtcc agcagctttt tcatatgatt atccaaaaca ctgttttaca ttgttttgca 420
 ctgt 424

<210> 16143
 <211> 355
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-007-Q1-E1-E6
 <400> 16143

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 ttcaagtttg gcatcgccaa ttctttaccc ttctcaatct tgatagtgat agcggatgat 120
 tcttggtcac gtgttgctca cgtgtttatt ggttctccag agcgcaagca acaccatgtg 180
 ttttaggctg tacacaaaca ccattagcaa tttttagggc aagataagaa aaaaaaaca 240
 tatgctgggg aaaaaagtcc tttccctgg cattattttg taagcaaatt ttttagctc 300
 actttgttat gcgaaacatg attatacaga tgtgtaattt gagtcgtaat tcggt 355

<210> 16144

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-E7

<400> 16144

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 agctaacctg aacgaacaag gggttcctcc cctccggcgg caataacggc cctccttta 120
 agggcgggcc cggtcgcgca attggcaaca agaagtcctt caacgttcgt ggctctcttc 180
 ggaagggcaa tggcaacggc gccgttggcg tttgccgcaa gcgtcgtgct tgccggcggc 240
 ggcgccatgg ccagaaggt gctgctgggc gcaggcgacg gcgggctcgt cttcgagcac 300
 agccatttca ccgtcagcgc cggagacacc atcactttca agaaca 347

<210> 16145

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-E8

<400> 16145

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 aaaggaggac gtatgggagc cgtgaatggt atgcatccaa atgggaaggt agatgaaacc 180
 tgtatgcagt caagagaaat ctggacagga gtaacacata gtttagcagc aacgatgctg 240
 ctccatggaa tggagcatca ggccttcaact actgcagaag gcatttatac tgcaggatgg 300

tctgaagagg gctatgggta ctggttccaa actccagaag catggacaat tgatggccat 360
 tacaggtcac taatttatat ggcggccctt gcaatctggg caatgc 406

<210> 16146
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-E9

<400> 16146

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 agcgcatatg agagctgatg atgaacaata ggtagatgct gctaaa 406

<210> 16147
 <211> 52
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-F1

<400> 16147

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<210> 16148
 <211> 278
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-F10

<400> 16148

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 ggtgtgcctg gtcgggatgg gccacaacga gatgacgctg ccgctgacgg cggcgggcggc 120

gcgggaggtg gacgtggtgg gcgtgttccg gtacaaggac acctggccgc tgtgcatcga 180
 cttcctgcgc agcggcaagg tggacgtcaa gccgctcacc acccaccgct tcggcttctc 240
 gcagcgggac gtggaggagg ccttcgaggt cagcgccc 278

<210> 16149

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-F11

<400> 16149

gtgaggcagg aactgctcca tgcaaatcaa attttcgccc aacatccaat gtggccagtc 60
 attgcggtca ctggaagagc tatagaggaa acagctgctg tcgttgtgag gattctccaa 120
 gacaggatac agaagtactc catgccacgc atatcaaac ggtactaagg gcacgtttgg 180
 tttcattagt ctctgtttgg tttcagggac taaaagtgtt aagaactcat taaattactc 240
 ataagaatac taaaatgtcc tttaccattc ttccgccatt actcttcttc cactgcaata 300
 gaaataaata aggggcaaaa tgtggaatta atatggttta gtccctttta gtcacccctt 360
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<210> 16150

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-F12

<400> 16150

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 ttctagcagc ttgcctgcat gttccgctgt cactgcctca ctaggcacgt tcacaatacc 120
 atcgatggct tgcctgcctc tatagaatgc tgatctactc ttcactggag gccccttat 180
 atataggaca aaaatcccaa ttttgtttgg aaaaccacaa gtagggatat atctgtcgaa 240
 ttctcgatg caacggcaac gccgttctac cctcaactt ttttttttc ctttttctac 300
 tttgcaacat gcaacaaggc ctgtcattga tcgaaattca aatatatgtt acattgggaa 360
 ttc 363

<210> 16151

<211> 391

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-007-Q1-E1-F2

<400> 16151

gggtcgagca cgcgtccgga tccaccaacc cgatcgctc gtcgtcaaaa aatccccatt 60

cgttccccctt ctgcctcca cgagccttca caaattgcc tctcagatct tctcctaatt 120

ttactcaagc cctagccaaa tcccagaccc atcccagccc tagcgacacc aaccagctcg 180

ccagcgacca tggggaaccc ggagaagctg atgaatcaga tcttcgacct caagtteacc 240

tccaagtcgc tgcagcggca ggcgcgcaag tgcgagaagg aggagaagga gcagaagctc 300

aaggtcaaga aggcgatcga gaagggcaac atggacggcg cccgcatcca agccgaggnc 360

gccatccgca agcgcaccga gcacatgaac t 391

<210> 16152

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-F3

<400> 16152

atgttatagc cctccaacca tcagaagcca tgtacatgaa actaactgtt aagaagcctg 60

ggttagaaat ggctactgaa caaagtgaac ttgatctgtc atatgggatg cggtagcaaa 120

atgtcaaaat tcttgaggca tatgaacgcc ttatcttgga tacaataaga ggtgatcagc 180

agcactttgt tcgcagagat gagctacagg ctgcttgga gatcttcact cctttgctgc 240

atgacattga cgacggcaag ctgaaggccc tcccgtatga acctggcagc cggggaccca 300

aggaagccga cgaattgagc gcgagagttg gatacatgca gaccacgggt tacatatggg 360

taccgccgac ccttgcatag aagacaatac gaattgtttg 400

<210> 16153

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-F4

<400> 16153

accaacgaaa gacggaacca caccgctgca tcgtgcggtc tgtgatggaa atgttcagat 60
ggttgagttg ttgctggaac acggagctga cgtcgacaag caggacagta atggctggtc 120
gccaaagagat ctagctgata agcaaggcca tgatgacatt caggctctct tcaaatacag 180
aaaagcacac aggaagcatg cctcaaattg cagagtggca cctatgctga tagggagatt 240
caacagttag ccctcgatgc cagatatgag ccatgaaaac gccagagtac gcagcgaagt 300
tgttccgcag aagctcctcc gaa 323

<210> 16154

<211> 314

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-007-Q1-E1-F5

<400> 16154

gggaccagca gcgcaaaggt gagcgagctt tccttcggaa ctgagaactc tcgtgctcac 60
ctcatccgtt cgacaaatcc acacgaatcc tctgattcag agcagggtgt tggcattgat 120
cagacgcctg ccatggcgga tcagttcgtg gattcggcga acaatgtgat cattgaggag 180
gtgaacaagg gcctgaaccc aggaatgggtg gttctgcttg tggttgcaag cttcctgctg 240
ctcttctttg tggggaacta tgcgatgtag gtgtatgcgc agaagacgct cccgccanag 300
aagaagaagc ggtg 314

<210> 16155

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-F6

<400> 16155

cagctcattg caaaatgcc gaacttacta gttctcgagg tatcatctcc tgctcatgta 60
aattatgaag atactgaatt ggcaatcttt tcatggtaat tgacagtata ttttttccga 120

taggtgagga atgtgattgg agatagagga ttaggagttg ttgcggatac gtgcaagaag 180
 ctccaaaggc tcagaataga gcgaggagat gatgaaggag gtgtgcaaga agagcaggga 240
 ggggtctctc aagtgggctt gacggctata gccgtaggtt gccgtgagct ggaatatata 300
 gctgcctatg tgtctgatat aaccaatggg gccttggaaat ctatcgggac attctgcaaa 360
 aaactatacg acttccggct tgttctactt gatagagaag agaggataac agac 414

<210> 16156

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-F7

<400> 16156

cctggtgaag cagcgggtgt gctccaagat tgcgagcgcc ttaaggaatt ggtgttgtcc 60
 cacgatgcta tcttcttggt gaccgacaca agagaaagca ggtggcttcc aactctccta 120
 tgcactaacg aaaacaagat tgctatcact gcagcattag ggtatgatag ttaccttgtc 180
 atgcgacatg gggctggccc tggcataagc tgtgaagctt ccagtgtggt cactgccata 240
 gacaagatgt ccacggagga tgccttggg cgtaaaggc tgggggtgta tttctgcaat 300
 gacgtcattg ctctgtcga ctcaagttcc aatcggacac tggatcaaca atgtacagt 360
 acacgaccgg ggttggcctc tattgcatca ggacgcgctg cagacctctt cagaagaatg 420
 ttacaccatc 430

<210> 16157

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-F9

<400> 16157

cggacgcgtg gggccgtggt agcgatgatg cctctggttt ccaggaagcg gcggccgtag 60
 tacgcgaacc acgtgtagtc gttcacgtcc ggtgacggca tagaggccac cggcaccgga 120
 ggcacccctg gcacgtcaac gaccctccc tcctcccgca acctggaagc cagctcctcc 180
 tgaatgcccc gtaaacgcag catgagcgcg agcatggcgc cgggtggacgc gaagtacacg 240

taggctggca cggcgaggtc gtgggcgacg tggaggagcg gggccccgaa gaagtcgacg 300
acgaccgctg ccaccggggc cgccaaacc 329

<210> 16158

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-G1

<400> 16158

ctggcccgtt ctgagccca gtgagaggct ccatgaagat cctggtcgcg gtgaagcggg 60
tggtggacta cgctgtcaaa gtgcgcgtga ggccggacgg gaggggctg gagacggcca 120
acgtgaagat gtccatgaat ccattctgcg agatcgccgt tgaggaggcg ctgcggctcc 180
gggaggccgg cgtcgccgct gaggtcgctg ccgccaccgt aggccctgcc cagtccgccg 240
acacgctccg caccgcactc gccatgggcg ccgatcgcg cgtccacgtg ctccacgacc 300
cggaccctgc gcggcccctc ctccctctcg ccgttgccaa gatccttcgc gccgtcgcg 360
tccaggagaa gcccggcctc gtcacctctg gcaagcaggc aattgatgat ga 412

<210> 16159

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-G10

<400> 16159

ctcccccttg ttgctcttgg ctccgcgatg gcggtgggtt gcttcaacca cgtgctctcg 60
ccgcttggtc ctteggccgc gggtaggcgc gtccgagcgg cgctgcggtg ccggtggcat 120
cgtcaccgc tgaccgcggt ctccctccgg cggctccgt gcggcgcggc agctggctcg 180
ggcacgcggc ggctcgcggc ggcggcagag tgcaggccg tgcaggagca gccggcgcg 240
gccgaagagg ccggcggggc gggtgccgct gaggcgtcct ccaagctggt tctggctcgt 300
ggcggaaccg gcggcgctcg gcagttgggt gtagcatcat tgctgagcag gaacatcaag 360
tcaaggttgc tcctaagaga ttcagaaaag gcgtttgtcc ctgt 404

<210> 16160
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-G11

<400> 16160

accagacctc atctcactcc gctaccccct catcctgcc tccaccagaa gcagtgaag 60
catatggcgc gccgtgccag cctgctcctc gccgcggcgc tgctcgctgc cgtcgctgcc 120
gcggcgggtgc cgccgacgtg cgagcgcacg gagtgcccgg cgtacgaggt ggtggacagc 180
gccaacgggt tcgagatccg gcggtacacg gacgccatgt ggatcaccac ggcgcccac 240
gaggacact ccttcgtcgc cgccacgcgc accgggttcc taagctgtt cgactacac 300
cagggcaaga acgcgtacaa ccagacgatc gagatgacgg cgccgggtgct gacgcgggtg 360
t 361

<210> 16161
<211> 136
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB83-007-Q1-E1-G2

<400> 16161

gcagcaagct actagctagc ctactacagc ctcactactt gttagcctag ccatagtcca 60
cacgacaaac tgatcgatgg tgcccaccaa gagccatgtc ntctcgccg ctctctcac 120
cgtcgctgcc gccgtc 136

<210> 16162
<211> 418
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB83-007-Q1-E1-G3

<400> 16162

ccccaacgaa gtgcgagcga ccacgtcca cacgacacga accaccacca ccaaccagca 60
gccgcaccac gcaccagcg caaagcgatg gcgtcgctca ccatgatggc gtccttcgcc 120

gccgtggcgg tggccgcgcc ctgcgcgccg ggcaccttcg ccgtgggtcag gtccgcccaag 180
 gtcgaccgct gccaggagcc cgccacgcta gcagcaaccg aggccaggcc cgccgccgac 240
 ggacgccgcg ccgtcatgct cgcggtgct gggcgggccg tggcagccat cggcgggcgcc 300
 ggcgccgcca tggcgggccc caagaacggg accccgatgc gaagaagaag tacgcggcca 360
 tctgcgtcac catgcgcacc gccaaagtct gccacanctg agcacgcccg cgttgcat 418

<210> 16163

<211> 398

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-007-Q1-E1-G4

<400> 16163

cccacgcgtc cgctcccatc tctccccctc tccctctcgt ggccacgact gccgctgccg 60
 ccctacgcca ggtgtccagg tcattctccg cccattcgcc ggcgacgagc accccactag 120
 atcgaccgag atatggacgg cctgtggcat ctgggggacg agctccgcgg gcagcccaag 180
 gtggtggagg accgccagtg gtcgctcatg acgtccaagc tggcagagat caccaggtcc 240
 agggggcgaga ggacgaacga cctcgactac gccaggatga acgccgcccc cgacgccaag 300
 cagtggggca aggccgcgtc ctnacagcac cacgacgagg gcaggatgga ccaccacgtc 360
 ggccctagcc tcaagatgaa cgatctcaag atgaacga 398

<210> 16164

<211> 410

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-007-Q1-E1-G5

<400> 16164

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 acgacgtcaa gatgattgag tcaggcaatg tgccgtacct caagtacaag acacagggat 120
 tctggacccg aggttaaaaa aatgttggag gctcaaagag gcagaaaaca aagctctacg 180
 gatccaagaa ggaaccaaag gaaatccagc tctgggttga gaataaaatg atgaaccagt 240

gtgtatatgt caatatgtgt atagtatatgt ttatgatcaa gtttatgtct gtctacctgt 300
 ggttgtagga tcctagtgtata cataagattg ataaccacat gtattcaatt gtcccttgaa 360
 ctaaagttat gganggtgta aagtctaaaa gtcatgtatt tatgcanact 410

<210> 16165

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-G6

<400> 16165

accacgcgtc cgggtgtgcag catcacggag acgaaggagg cgctcaagct caaggaagaa 60
 gcgaccgctg caaacggtga acatcaagggt gaagatggac tgcaaagggt gcaagcgtcc 120
 cgtgaaaacc gcggtgaagt cgatgcgcgg cgtgacaagc gtgacggtga acgcgaagca 180
 gagcaagtgc acggtgaccg ggtacgtgga gcccgccaaag gtgctggagc gcgtcaaggc 240
 caccggcaag aacgccgaga tgtggcccta cgtgccctac acgctcacca cctacccta 300
 cgtcggcggc gcctacgaca agaaggctcc cgcgggcttc gtccgcagcg cgccgc 356

<210> 16166

<211> 227

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-G7

<400> 16166

accacacgtc aggtatccag tatcacggcg acgaacgatg cgctcatgct catgaagaat 60
 agaccgctgc agaccgtgaa catcacagtg acgatggact gctatggttg ccagcgtcac 120
 gtcaagagcg gtgtcaactc gatgcacggg gttccgagcg tgacgggtgaa cacgtcgcag 180
 agtacgtgca cgggtgaacgg gtaagtcaag tccgccaggg tgctgga 227

<210> 16167

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-G8

<400> 16167

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cctgcggccc tacgccaggt gtccagggca tctccggccg attcgccggc caccaacagt 120

ccagaacatc aaccgagata tgcactgact gtggatatccg ggggacgaac tctgccggca 180

gcccattgtg gtggaggacc accagtggtc gctcatgtca tccacgctgg cagatatcac 240

cacgtccacg ggccagagga ccaaccagct cgacgaccca agtatg 286

<210> 16168

<211> 414

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-007-Q1-E1-G9

<400> 16168

cccacgcgtc cgcaaggagt ccatcgtgtc ccgcgagatg acccgtcgct acatgacgga 60

catgatcacc tacgccgaca ccgacgtcgt catcgtgggc gccggctccg cggggctgtc 120

ctgcgcgtac gagctctcca aggaccccg cgtgagcatc gccatcgtgg agcagtcggt 180

gtcgccgggc ggccggcggt ggctgggcgg gcagctgttc tcggccatgg tgggtgcgaa 240

gccggcgcac ctgttcctgg acgagctggg cgtggcgtag gacgaggccg aggactacgt 300

ggtcataag cagccgcgc tcttcacgtc cacggtcatg agcctgctcc tggcgcgccc 360

caacgtcaag ctgttcaacg ccgtggccgt ggnaggactc atcgtcaggg gagg 414

<210> 16169

<211> 248

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-007-Q1-E1-H1

<400> 16169

agacaagctg ctgggtgcttt ctgccgaagg ggccttgaat gaatggtgaa aaccgctgga 60

tggttagagg atctgcatcn tcttgtgttc ttctgtaaaa tactgagact tgggcagcat 120

aaaaagcttg gcaaatttct gttgtgtggc aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaaaaaaag aaaaaa caaaa aacaaaaaaa aaaaaaaaaa aaaaaaaaaa agggg cggcc 240

gctcaaaa 248

<210> 16170

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-H10

<400> 16170

cccacgcgtc cggagagaga ggcagagcga gcgagcgaga gagcgctggt catggcggtca 60

ctgtctgtcg ccgccgtggc ggccaccata gcgatgcca gcagcagcgg tgggagaggg 120

cgccgtctca gggtcgcgtc catggccacc cagaagggcc agaagccgac gcccaagacc 180

gtctccggca cgagaagatc gggcacgacg acggtgttcc cgggtgggcga gccggggccg 240

cggccggcga cgacgagcgg caaagcgccg gttaagctgc tgacgaacgt ggagaagctg 300

cggctgctga ccaaggcgga gcgcgcgggc ctgctgtcgg cggcggagcg cgcggggctg 360

tcgctgtcgg cgatggagcg gctgggccta ctgtc 395

<210> 16171

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-H11

<400> 16171

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ccgcagtggc acgacgccgg caagtcggag tacttcgcgt cgtcgtcgac gctgttcgtg 120

atcgagttca tctgtttca ctacgtggag atccggcggt ggcaggacat caagaacccc 180

ggcagcgtca accaggaccc catcttcaag agctacagcc tgccgcgcga cgagtgcggc 240

taccccgga gcgtcttcaa cccgctcaac ttcgcgcca agctcgaagg caaggagaag 300

gagctcgcca acgggaagct ggccatgctg gcgttcctgg ccttcctgat ccagcacaac 360

gtcaccggca aggggccctt cgacaacctg ctgcagcacc tgt 403

<210> 16172
<211> 117
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-H2

<400> 16172

cccgacccac ccattcgccc acgcgtccgg caccaaagcc aaagccaaag aatcctcttg 60
acttgctgcc accaagcaag atggtccttg atgactggaa gaggctatac tcaaaca 117

<210> 16173
<211> 406
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB83-007-Q1-E1-H3

<400> 16173

agataagggg cggcacgcga cgcaactatc ctcgagagag agagagagag agaggaagcc 60
cgtcgttctg gaagtttcca cgctccgcgc ctccgcccc tggtctgagt ggtctccgct 120
ccaatggcgc cctcactcct cgccgccatg tccacctcgc ccttcctagc cagcagcggc 180
agcagccgca ggccgctagg cgctgccac acccgacggg ctggactgcg cgtggccgcg 240
cttaagtacg accctgccaa ggtggcgccg cagaacgacc gggttctcgt ccgtcttgag 300
cagatccctg agaaatctgc tggcggtgtg ttgctaccan aatctgctgt taagtttgag 360
agatatctga tgggtgagat tctatcgatc ggtgctgaag tcagtg 406

<210> 16174
<211> 238
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-H4

<400> 16174

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cggcaccgag tacgtgatca acgcggcggc ggaggccggc acggtgcggc ggggtggtgtt 120
cacgtcgtcc atcggcgccg tgaccatgga cccaagcgc gggcccgacg tcgtggtcga 180

cgagtcgtgc tggagcgacc tcgagttctg cgagaaaacc aggaactggc actgctac 238

<210> 16175

<211> 345

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-007-Q1-E1-H5

<400> 16175

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gacctggacg cagtgtgag ctagtgagta gtggcctagt gtgctgtatt atgaaaatgc 120

ataggtgggc actgaccctg tgtaattgcy gtttaattcgg cacacatttt tttgttgtag 180

ataacgttta gtcccatgag ggaagatatg ttggtcgctc ttgaaattgg agtatgttgt 240

catacagggc ccagaagaac tcaggctctg caccggaggc ctggagccca ggcattcttc 300

agttgcaaca cttgatgtan aaaaataaga aaaaacattt tacct 345

<210> 16176

<211> 135

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-007-Q1-E1-H6

<400> 16176

gcgaggaagg tcgacagctg cccaaaggcg attctgtggc ttgctanatt caaggatttc 60

aaaactgccc tgttacaaaa gcttgaagaa gactccaagc aacaacaaca acaaacctc 120

ccgcaactcc ttgaa 135

<210> 16177

<211> 224

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-007-Q1-E1-H7

<400> 16177

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agcgccggga tagaggactc ttcgcagaaa aaccggcgcg gccggccgcc gggcaccgcc 120
 aagaagcatc agccttcgcc ttctcaaggc attgctttcg ccggttaagc tggaacaagc 180
 ttcattcgga aaatcatcac ggcttctcct tcaaaggact tggc 224

<210> 16178

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-H8

<400> 16178

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 ggacataact ggcacattgg caacggagga ggctgatgat tctggacatg taagtaaact 120
 ccgctctgct ctggagtctg tggatcacia aaggagaaag atcatgcaac aaatgcgaac 180
 tgacactgcc ttgttaacia aagaagaagg tggctcacca attcgcaatc ctctactgc 240
 cgcggaggat gcacgattag catctctcat atctctagat aacatcttga agcaagtcaa 300
 ggaagtaatt agacaaagct ctacaggacc tatgagaaaa tcaaaaagga aagctttgct 360
 agagtcattg gatgacctct tgacacagat gccctctc 398

<210> 16179

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-A10

<400> 16179

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 tcaactcact ctacagcaac aaggatatct tctgaggga gctcatatct aatgcctctg 120
 atgctggata agattaggtt cctttccctt actgataagg aagttctggg tgaaggggac 180
 actgcaaagc ttgagattca gattaagttg gacaaagaga agaaaatcct ctccattcgg 240
 gataggggta ttggtatgac caaggaagat cttattaaga accttggaac gattgctaaa 300
 tctggcactt caggaacagg agctgctcga gtctcttgtc gaagctgata cgagaaggca 360
 ggaaagagct aaaaagatgg aagaaaagaa agtgtatctg caactatacc aagcaat 417

<210> 16180
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-A11

<400> 16180

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ccacgcgtcc gctttctcct cgaggctcga gcattcgtgc tgctccgacc ccaccgccac 120
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tttgctgtca ttggatcatc cttgtttcaa atcatcaaga cgggaaccaa cggcgggggtg 360
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<210> 16181
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-A12

<400> 16181

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ccgtgtcggt cttagcccg cgcggttctg agtcgcggct tcatcgctgc gtaccgatcc 180
ccaccgcccc cactgccacc agagggtgtc acatgtctca gaacaacccc tcccagcttc 240
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acaaggagct cggtggcacc ctctgcggct ttgatgtcta cgtcaatatg gtgctggagg 360
acgtcaccga gtatgaatac actgctgaag ggccgcgtat taaaaaactt gaccagatcc 420
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<210> 16182

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-A4

<400> 16182

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gcagctagct aggagcagca gcagagcagc ggcgatggcg gcctccatga tctcctcgtc 120
agctctggcg gtggcgcttc agggcctgcc gccctcggc cgccgcgcct cctccttcgc 180
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cgacaagtac ggcgcgaacg tcgacggata cagcccaatc tacaacgagg atgactggtc 360
tcccaccggc gacgtctacg tcggtggaac cactgggctt ctgatctggg ccgtcaccct 420
cg 422

<210> 16183

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-A5

<400> 16183

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cgccccgccg cgcagcgccc agctgctcgt ctgcaaggcc cggaagcagg aagccgccgc 180
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cgccggcgcc aaggtgggtc ctgccgccgc ggcatacgga gaagcagcca acgtgttcgg 300
caagcccaac gcgagcacgg agtacatcgc gtacaagggg cgacggcttc aagctgctga 360
tcccgtccag gtgggacccc aacaaggagc gggagttccc ccggc 405

<210> 16184

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-A6

<400> 16184

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gaactatttg aagcaactct agcaagcaca gtaacataca tacctcatca tgcattattt 180
taaagtcttg ttttaacagga agctgagtgt ccaaaactgt taactgaaat gttcatatga 240
agaattttta aaggtgtgct agcaattatt tgccttttta agtagcagtt taatttgttt 300
tcctattatg ttttgcagtt taaaaacaca acaaaatcgc tcctagaagc aggcacttct 360
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<210> 16185

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-A8

<400> 16185

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agaagctcga tgtcgtctcc aacgaggtgt tctccaactg cctcaagtcg agcgggcgca 180
ccggcgtgat cgctcggag gaggaggacg tgcccgtagc ggtggagcag agctactccg 240
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ccactggctc catcttcggc atctacaacc ccaacgatga gtgcctcgcc gacgtcgacg 360
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<210> 16186

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-A9

<400> 16186

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tgggcctcac gtgtgctacc aatgccactt gttgggctac tcgtcatcac tgggctgtgt 120
ctgccagtgg aaaagcaaga tgggtttcca gagctggagg cattgtccag gctagatttt 180
ggagctgcac tgaagatttt cttggcaaag caactgacat ctgaattcac agctgtgcct 240
acaccogttg aggagaaatc agttatcatt ggggagagga acagagttgc tgccgagaag 300
atccgggaag caataaacgg tgggtacaag agaataacgg tcctctacgg cggcggacac 360
atgccagacc tggga 375

<210> 16187
<211> 220
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-B1

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gactcactga ctgtagggga atgcatgga agtgtagatg tgatgtttct tctcaattgt 120
atatgccatt ggattgatgt ttggaaattt tacgtgtagt atgtctaaga taagtccttt 180
tatgtactgg ttccgtgaac ctataaaaaat gcttcagctg 220

<210> 16188
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-B11

<400> 16188
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cgatgtcaag tacatgaacc ggcacagct gaaggagctg ctcaagaaag ccgatgccgg 120
ggaagatggc gttaagctct ccccttggtt caagctggtg gtggacaact ttctcatggg 180
ctggtgggat catgtcgagc aagggactct gcagggggca gcagacatga aaaccatcca 240
taaattgtaa atcttctaga tcgcttaagc acgagtcttg ccctgttgag gaataagcgc 300
ttgtcctgct gtttggtgct ggaggaataa tcgataaaat tataacagag tgatcttaat 360
tctggaacgt aactattaac attgaaaccc atcctc 396

<210> 16189

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-B12

<400> 16189

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aaagcccacc ggccgccaca gcgtctccac accagaggag atcgctgctg gtacttcagg 180
tcgccctcgc acctttatga agacatgcaa ttgacaaaga gaattgatct tttttatggg 240
cgaagtgtcg aagatggctt tggatgaagga aatgtcttgt tagcatcaag taaatggcga 300
catcacaacc cctacaagct tgtgccttaa aacaagagga tacaagaagt tggagtgtct 360
ttgtgaaggc ttttgcaat cacttgaagc gtagtagtct ttgtgaatga ttttggttaag 420
tgttt 425

<210> 16190

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-B2

<400> 16190

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atggagaact atggcttggt tacataccgt gaaacagcat tgctatttga tgagatgcac 180
tctgcagctg ccaataagca acgggttgca gttgtttag ctcatgaatt agctcatcaa 240
tggtttgaa atcttgtcac aatggaatgg tggacacatc tgtggcttaa tgagggcttt 300
gcgacttggg tgtcttactt agctgcagat cagttctttc ctgaatggaa tgtttggact 360
cagtttctag aggaatctac aataggtttc aag 393

<210> 16191

<211> 398

<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-B3

<400> 16191

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catctctcgg aagccagagt ctcatcggcg ctcgacaagc tagcgcatat ggagaccctg 180
gtgagcgcac catccacagc cgagccgccc acttcttctt cctgtctgc aactgcaagc 240
agcaccgccc gtgtccgagc caagaacaaa cagccacgtc ggaggcttga cgtgtccggc 300
cagtggaagc cttacaaccc cagcctcaag aacttctggt acccagtcgc cttctccagc 360
gatctcaagg ctcttgacac catggtggca atcgactg 398

<210> 16192
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-B4

<400> 16192

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tcccatggtg ctttccgtga ttatcaagtt gatgcggttt ctttagaatt ttcaccaaca 180
tttcatgtca aaaatgagaa tgctaaatct ttgtttcttc tgaagggtgg aagggttaatt 240
gaaggagtgg cacgttctgt gaacaatctg cttgagaagt tccatcagtc ctttttcttg 300
tacttcctta caggtccaag caagttcatt tcggttggtg tgtatatgat tccgtttgca 360
ttgcttttgg cacctctccc aatagttgct gctg 394

<210> 16193
<211> 62
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-B5

<400> 16193

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at 62

<210> 16194
<211> 179
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-B6

<400> 16194

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ctcgccaccc tgctgggtata acccgccggt cgtccacgcc atggccatcc aatatgcacg 120
gctctccctg ccatgccgcc tgccctcacc gctccctccg ccggtgtoga cgacgatcc 179

<210> 16195
<211> 66
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-B7

<400> 16195

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cactat 66

<210> 16196
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-B8

<400> 16196

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tcactacgc cgatgtcgta tgaaaattgt cgcgctggca cgtcgatgtc gttgatcatc 180
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agctcgacaa aatgcatccc ctgagtatct ggtcaaaaac gagattatgt gcaccgctcg 300

tcaggtgtgt gcgatcatag acgtcaagca aaaaccattg tcgttcttcc gactatcgtg 360

tcagatcggg catggtaagc tgatctatta ttctgctag ctaaaatggt gaatg 415

<210> 16197

<211> 66

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-B9

<400> 16197

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gctctt 66

<210> 16198

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-C1

<400> 16198

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ataaataatt ttttcatagc actcttttga tttcagttat cggatcccgcc atcgtggaat 180

gcttgccaaa gggaggaagg tagctggaag gcgtgaagaa atgtctgcaa attatgcgtt 240

tggaccacag gatgatgatg cgattattaa acacaggctt ctgactagga caacgaccac 300

caggggtgaa ccgccactaa agaagcttca gaagaagttc atgtcctttg caactgagat 360

cgagaaggat gcagataaca taagtgactg tgaaagactg tacaa 405

<210> 16199

<211> 126

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-C10

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ggatgtggat tctggctgag ctgtttgtaa attttccatc ttgtgaatcc agagaggtta 120
ggctgt 126

<210> 16200

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-C11

<400> 16200

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ctcgacatgg aggtcgccgc cgccacttgt acgtcccttg ctgccgtcgc cctaaccagtt 120
tcgtccctcag cagcagcagc acgtctctgcg acgaaacaga gctactcgag gaggaagacg 180
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ttcaagaagc ttctgggatg aagaacagag aggacggcta cgacggcctg atagaggcgg 360
ccctggccat ctccgcgtg ttca 384

<210> 16201

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-C3

<400> 16201

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aagaaggacg tcgtgacct cctcaccagc ggccttgaat cgcacgcctt cgcacggatg 180
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gtgatgcagt cttgtttgga tagctataac attatcttctc ttgttctttt gtgctcaagg 360
catgccatac tctgtttctc atgcatatgt cgcgtttaag attgaaaat 409

<210> 16202
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-C5

<400> 16202

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gtatctgact ctctcatcc cgagttcttc actttcaggc atggtcgccg tgaagcagct 180
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<210> 16203
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<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-C6

<400> 16203

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gactaatctg tgtatggtgt gcccgatgat gatagaagtc aaggcttggt tctctacatt 180
cgcagttgcc gcctaagagc tttcgccctg ccaggcttga gagctaattgc tgctaattcc 240
ttccttggat gtctgagggc acaataatgc cagataattt tgctttgaaa tctgtttaac 300
tgttgttacc ctggttttat agttttaatt attaaatttt attttatttg aaggatttgt 360
aagagtatgc aggctttgtg ggaagatttt ataagaacat gcgaagttcg tt 412
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<210> 16204
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-C7

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gcaggaagcg agaagagctg cagagaaggc ctatgacatc ccaagagttg atgataaggt 180
gaacagggcg gttgcagcag ctaataaagc agccaatgca gccaggggtgg ctgccgtgaa 240
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atgaagccaa tatatgttgg catggagctg cttcgcgatg ccatcgcac accaattgcc 360
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<210> 16205

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-C8

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tcaagggcgg cgagaagaag gagagcgtca tcgggcgccgt cccaagtcc acgctcacca 240
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tcgtgatgtg ccccgagct gcattctcat gcattggata ctgggatcga tgatacatgt 360
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<210> 16206

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-C9

<400> 16206

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ggccttattg cagcagctag caattgacat tcacaatgag acatcacgaa aggttcaatg 180
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<210> 16207

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-D1

<400> 16207

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 catcagattc tgaagctggg tctgatgccg agaattgatg ggagctctcg acatcgagtc 300
 aagagcaaga ggaagaagag gatgatagtc atgatggaga aaatggtaat aatgtgaatg 360
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<210> 16208

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-D10

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 gtcagtgatt ttaaatttta cgctgctccg aggaaatttg caggctgctc cgagcaatta 180
 tgcacgctgc ttgctcattc gatgcccatc tactgggtacc tcgttttccg 230

<210> 16209
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-D11

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aatttagaac tgaacatatt ggctgaagat acagacagaa gccaaagtaca attgaagggga 180
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gtccgactgc gatttggtta atgggatgaa acattgggtg gcacacgata acatgttgcc 420
cgctga 427

<210> 16210
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-D12

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accctgatgt gaacaagaag cttagtgtg gcacgccttc tatcctggag tcaaagctgt 360
ctgttcccaa gtca 374

<210> 16211
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-D3

<400> 16211

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tgaacgatga tcatcatatc atgacagtat catggagggg tatgaagagg aaaaaacagt 180
gcttaacatt ggggaacatg ttgaatcttt agcgtgaaaa cattttgtta tgtcagtcac 240
actcctggaa ttcttttgcct tttccgtagg acctttacta aggacttgcc tgcgatgcat 300
tataagatta ttgattgctt aaattatgtg ttataatatg gtggtggatt ggtactgagt 360
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<210> 16212

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-D4

<400> 16212

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ctgagactcc cgcgccgttg gcgaggcgcg tccccgagac ccccgcgag gcaccggcgg 120
cgcccgccgc cgaggcgaag cctaccaagg ccaagaaggc ctctgcgccc aagaagcgtg 180
ccaacccgac ccacccgccc tacgccgaga tgatctcgga ggctgtcacg tcgctcaagg 240
agcggacggg gtccagccag tacgcgatcg ccaagtctgt cgaggacaag cacaaggaca 300
agtccccgcc caacttcgc aagctcctgc tcggccagct caagaagctc gtcgccggcg 360
gcaagctcac caaggtgaag aactcctaca agctgccgc acgcgccccg gccgccgc 419

<210> 16213

<211> 174

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-D5

<400> 16213

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gagagggggtt tctactata tacatgtgta aaaatttggt tcatgtaatc ttgtatctga 120
gtgaccagat caggtgatta tgcagatgag aagaacagag ttttttttcg gtct 174

<210> 16214

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-D6

<400> 16214

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caacgggaga aagggcaagg gcaagggcgt gtaccagttc gtgacaagt acggcgcgaa 120
cgtcgacgga tacagcccaa tctacaacga ggatgactgg tctcccaccg gcgacgtcta 180
cgtcggtgga accactgggc ttctgatctg ggccgtcacc ctgctggga tctcggcgg 240
cggcgccctc ctgctctaca acaccagcgc cctctccggc taaggatata caatgcatgc 300
gcttcttgcg attcgtcatg taaaatcagg gtgtctgtct ataatctagc ctccatggat 360
gctcaacctt cgtcatgtaa caataatcag tgctactctt cattacataa ttttga 416

<210> 16215

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-D7

<400> 16215

ggatttcgag gggaaggggc ttcatgccaa ggcagaagag gtcctcagca tgcttgtaaa 60
gaaaaccatt tccccctctg atgctacgaa caccatgcta caattcttta aatatgggtgt 120
aacagactat tctgttactg gcagcaagtc aaaaggaata ctggcggctc agacaagcaa 180
atctacagat atgtccatc ttcagacccc aaccatcact ccaccaaagt cctcgttcaa 240
cttcaagccc agcacctcca ttcttgattc acagatcgat gtgctcaagg ccagcccaaa 300
accactctcc atagaacccc atttcagctc cagctcgaag gacgacgact catccagcct 360
cgagaccatt gtgaagtgca aggaagccga ggcaaaactg ttccagaaac t 411

<210> 16216
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-D8

<400> 16216

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tcacgttgag cgtcaccaag agcaaccggg agaccggcga ggtcatcggc gtcttcgaga 120
gcgtgcagcc gtccgacacc gacctcgggg ccaaggcgcc caaggatgtc aagatccagg 180
gggtctggta cgctcagctc gagtgattcg agtgtctaac tgctaggtgt ccgaccgccg 240
tcatggatct tgggaagggtg tatgtatacc atgggaaact ttggagagca caggaggaat 300
cgtgtatgta atgtgcctgt taatgcaaat tcgggctgtc gcttttttac tcgc 355

<210> 16217
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-D9

<400> 16217

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gtacgtaggc agaagcctag ctggggttga agggccccga tcgatgatcc cctacgcgac 120
tgcggcggag gcggagggag cactggggcg caccatgacg tgggctgaga cagcatggta 180
cgagtactcg gcggtgatgc cagattcctg gctgcactgc cacaccacat ttatcctggt 240
cgtcatctac agcatcgccc cgctgccct gctactccta gagcagttcg ctccgtccgt 300
cgtgctgccg tacaagctgc agccccgggt acggctgcc ccggcagcct ccctcagctg 360
ctacatggac gcggcctgca tctttccgct cgccgtt 397

<210> 16218
<211> 132
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-E1

<400> 16218

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 ccctctatc agttatatac ccagctatag caatgatctc catcctatcc agtaatggat 120
 ttggtatcgc ga 132

<210> 16219
 <211> 414
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-008-Q1-E1-E10
 <400> 16219

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 ggtgtcgcgg tctcctcgc tgcctccttc ctcccagtag ccgagtcgtc ctgctgtcga 180
 gataactcat tgggtgagaga cataagccaa atgccgcaa gcagctatgg gattgaagga 240
 ttgtcgcata taacagttgc tgggtgcgctc aatcatggga tgaaggaggt ggaagtgtgg 300
 cttcagacaa taagtccagg tcaaaggacg ccaatccaca ggcattcctg tgaagaagtt 360
 ttcactgtcc tcaaaggga cggtagcgtc ttgatggga taagctcact aaag 414

<210> 16220
 <211> 453
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-008-Q1-E1-E11
 <400> 16220

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 acgcgtgggt agcttagaga tggctgtgat gtcaacgcct cagcattaat ttggacttct 120
 aggcttctct tgcgtattta tgctttatat aagcatatgg ggtatggtcg atcttgtcta 180
 ttgcccttcg gagttccttt caacttcact tgagcctttg atgggacaat tggagtcatg 240
 tgctctgct cagaaaatca gtttttaact gaaacccttc ccttttgctt gcttccttgc 300
 ttcgtcaatg gtgataccag ctattttagc atcaatcttg acggtgtgaa tcccaaattg 360
 ctgtgggtttt aatcttctg ggtttttttg gcactcatga tattgatata gctatgatgt 420

tattgatata gtatactccc ttcaatcatt ttt

453

<210> 16221

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-E12

<400> 16221

agaggagggt gccaaagctat atacctcatt actcgaagag aagggtgggt tgcagactct 60

cttgaaatat attaaggaga ataaccctga caaactttct atagcacttg ctccatcact 120

tgacactggt gctgaattgg agctgttaca ggctcctggt ctgtcctttc tccctgacctca 180

acagtatata gaatatccaa ggctgacagg aagacgagtt gttgaattca cagttgaaaa 240

aggtgatggt tcaacattct ttccaactgg tgggtggtgaa ccgaaaagtg ttgctacaat 300

tcaggtcggt attgatgggt actctgcccc actgactgct ggaaactttg caaaattggt 360

cttggatggg gtatatgacg gggtaacact taaatg 396

<210> 16222

<211> 88

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-E2

<400> 16222

aaaaaaaaa aaaaaa caaa aaacaaaaaa aaaaaaaaaa aaaaaaaaaa aaacaaaaaa 60

aaaaaaaaa aaaaaaaaaa tcaacaac 88

<210> 16223

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-E3

<400> 16223

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tctgcgcgtc catgtccatg tcctcctcca acccgcccta cgacctgacg tccttccggt 120

tcagcccat caaggagtcc atcgtgtccc gcgagatgac ccgtcgctac atgacggaca 180
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 cgccggggcgg cggcgcggtgg ctggggcgggc agctgttctc ggccatggtg gtgcgcaagc 360
 cggggcacct gttcctggac gagctgggcg tggggtacga 400

<210> 16224

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-E5

<400> 16224

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 actttccccc ttctattgct accgcgggtc ttatgcaatc gatcggatca tatagatata 120
 ccttcaacac aacataggct atcgaaagga tctcgacga ctcaccaaag cacgaaagcc 180
 agttagaaaa tggattccta tttgaagagt gcctaaccgc atggataagc tcacattaac 240
 ccgtcaatth tggatccaat tcgggatttt tcttggaag tttcggaag aaattggaat 300
 aatatcgatt catacagagg aaaaagttct ctattgatgc aaacgctgta cctagaggat 360
 aaggatagag gaagagggaa aaatcgaaat gaaat 395

<210> 16225

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-E6

<400> 16225

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 ccccaaagt cgctctcgt gctgctgtc ctgcgcacc tactcgccac gggcactgca 120
 gcgggagcag cgccgaccaa ggacgacggg cctcctgtc cgctcgtc gtcgccgcg 180
 gtgccggcga cgacgcgcgc gtggccggac cagttccacg cgggtgggtgt gacgaacctg 240
 agcgcgcgcg gcggcggggt gcagctgac gacctgtact acgactggcc gcgagggcgc 300

gacctgaaca tcgtccgcga ccagctgtcc ggcgagcggc gctggagctg gaacgtggag 360
 tggagcaacg ggaccgcctt cctgttcgac tccgcgtcct gccgcacctt ccagttc 417

<210> 16226

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-E8

<400> 16226

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 atgggcactc cgaggggtgg cgtctcctgc ctgtgccggc cctgcaattg cccggcgtgc 120
 gggctccoga cctgcctgtg gagcatgctc ctttctcttc gtgttctcat gagagtcctc 180
 tccactcatt gtcgagggtg tcatcgaagc gaatattcat tcggtcaccg tggactcggg 240
 ctccgggtac cacttcatgc attcaggggc ttcgattttc tactactatc tcaaggtgtc 300
 caggactgtg tgt 313

<210> 16227

<211> 282

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-E9

<400> 16227

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 atgtgcagg tacctctctc tccctccac cggccaccgc cggagcgtgg cggcatggtc 180
 tgccaaaaag aagaaccgt ggctggaccc gtctgacgat gggcccgcgc aggagttcga 240
 ttaccagggc atgttctccg gcgggaagca ggaggaagac cc 282

<210> 16228

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-F1

<400> 16228

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ccccgccgcc gtctccggcc tcatcatccc gtccccgcct ccgccggcgc cggcgacggc 120
gcacgatgcy gaggcggggg cgccggagtc ggtgacctcc cggacgaacc cgctcgggga 180
ggtggcgctc tcggagatcg agaggctcct gatgcacgag ggggaggcgg aactgggcgg 240
ggaggtcgat gggatcagcg tggaccagtt cttcgacgcy ctgtacgacg gcgaggaggc 300
gaaaggtgag cgggaggcgg gggcaagcgc ggatgtggac tccggcaggg acgatgtgct 360
ggaagtcg 368

<210> 16229

<211> 111

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-F10

<400> 16229

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cctgcacgtg cgccagatac gaacgcgctg tgcacaggca gctaggctca t 111

<210> 16230

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-F11

<400> 16230

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aactggggga gtgtgctgca ggtcctgcy attgtaacta cctggtttct catttctgtc 360
atgcattttt tttgggcccg tgtacatgtt acatcgacga aagtcgaaac aggcaaaatg 420

caagggg

427

<210> 16231

<211> 217

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-F12

<400> 16231

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attatgtctt catttatgca tactgtacat gattgttctc acgatcatgt tgtgagcaac 180

gtcctaaatc aaactgttga cgctttttcg gagcgcc 217

<210> 16232

<211> 101

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-F2

<400> 16232

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<210> 16233

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-F3

<400> 16233

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ggcttatgag tatctcaggt ttctgcccag acaccctttc acatccgaca tccgggcatg 120

gatgtcgtaa cttttcctgt gcaaaggggc gaacaccatt gaggtgtttg gtatcgagct 180

agatttctgt gacgccgcga agtcagagaa agaaatcttg tggctcctag acatgcttga 240

ttggaaatag aagttcctta tcccctttgg ggtttgacac atgttaagcc tgttcatggt 300

tagtcgttcc ttctctgttg gaocatgttc gctactactg aactacataa tctcctgaga 360
 aaatgtaata aatgtcacct gctactccat ttt 393

<210> 16234

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-F4

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 cgtgcaaatac aagctcgtcc ccgacaactc cgccggcacg gtcaaacacct tctac 415

<210> 16235

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-F6

<400> 16235

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 ccagattcct ttgactggcc caaatcagt tgttgggaga gcatttgtgg ttcattgagct 180
 tgaagatgat ttggggaaag ggggccatga gtcagcctc tctactggaa atgctgggtg 240
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 gttgcagttg cagctacgct gttacatcct tgccttgggtg gacttttgtc ttcaatcgtg 360
 ttattgggac agtgacctt ttgtattact tggattcatt ccatgcatgt ggtat 415

<210> 16236
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-F7

<400> 16236

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gccggaggcg cccaaggagc cggcggcggt gcctgcgccg gccgcggagg aaggcagcaa 360
gtcgtcggag ggcttcggcc tcggcgacgt catgaagggc gccgag 406

<210> 16237
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-F8

<400> 16237

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atgtgataga tgatgctgtt ttacgtcccg gtagatttgg aaagaaacat tatgtacctt 180
tacctggtgc agaccagaga gtttcaatat taaaggcaca tgctcgtagc aagcccatct 240
cgactgatgt tgatttggat gcacttggtc gtcgtgctga gtgcaacaat ctactggtg 300
ccgacctaac atcactgggtc aatgaagcag ccatggcagc actggaagag agactggaaa 360
tccgtgacaa ggggacatcc tcactg 386

<210> 16238
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-F9

<400> 16238

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tggcaccgtg ctgcaaccag gtgttcccct gccgccactg ccacaacgag gctacagctt 180
ccggagatcg gcatacaata tgtcgtcagg atgttgaaaa agtagtttgc ctactctgtg 240
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tttgtgatat atgcaaattt tatgatgatg atacagacaa agggcagtac cattgcatcg 360
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<210> 16239

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-G10

<400> 16239

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tggcgccttc cttgtacagc agtacactat agtttagtgg cagctgtatg ggcttcagat 120
caaacatggt gctggttagt agtcttcatt actggatatt gatgcctgaa tcttctcttt 180
aacaactacc accgtttttt ttactgcag ggccttcatt gaggcacatc ttccagcctt 240
taaggaaaag aatccacact tagagggtgg gacagagctt gtccgcggtc aacatcctaa 300
cttgaaggga atttacaact cattcaattg gctttaatat tctcgggtgc aacgtccgtt 360
gaaagggcat tttcagcgat gaaaattatt aagatctatt tacgaaacaa gatggctg 418

<210> 16240

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-G11

<400> 16240

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gaaagggact caaaaatctc atcttaaaac agtagtccag tgcaacagca gcaggcagaa 180
 atatgaaaat gttctcaacc aactgactg cagcatcaag agtaactgat attaaggtat 240
 cagtactcag ctccaaggtt ctaccagatt ccagcagagc aaggcctcta acaaaagcaa 300
 atgctgcagg agccccagtt tttagttgga tattatccag atctcttcta acagcgtacc 360
 ggaat 365

<210> 16241
 <211> 394
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-008-Q1-E1-G12
 <400> 16241

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 gcgccgagtc gataaggagg acacagtacc ccagcttcac tgaccgcccc tctaacctga 180
 ggggtgttctc ctttgcgtgaa ttgaagagtg ccacccgcaa cttccgcccgg tctctcatgg 240
 ttggctaggg tggttttggc tgtgtgtaca ggggtgtcat caagacctcc gacgatctga 300
 acgaacgaat cgagatcgct gttaagcagt tgaatcgtaa aggacttcag ggtccaattt 360
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<210> 16242
 <211> 120
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-008-Q1-E1-G2
 <400> 16242

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<210> 16243
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-G3

<400> 16243

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tgtcgccggc gctgcgcgag gagttcgtga ttgcgtccaa ggacgacgag gtcgtggacg 120
cctgagcgag catccacgcg ccagcatgca agcagcgtct tatctgggcc ggcgccatca 180
cggggttttc ttcttttaat ctgggacttt gttgttggtg gacgaatgaa ttcccttcga 240
tcggttagct ttaatctgtc tcgttagtgt gtcgtgttcg ttagcacca tgccacaact 300
acgccatgcc gtgtgctctg tcacgtgggg gccactcgtg ggtctcctg ctgctgtcag 360
aacgaataag agaagatgga attgtggtga aacaataaaa atgcatg 407

<210> 16244

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-G4

<400> 16244

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gtcctcttgc ttgctgctat atgatcccca cgctcccgcc gccactctaa ccaccgcac 120
cactctcgtc ccgtcccgta tctacctacc tgctctctcg tcttctgctc acacgctgac 180
gcgcacgctc cgagtccgag ctaagctagc tagctaacta cttccggggc ggcacagcca 240
cagctgttta ggtagtagct agacgtacgt acgtactcac accacgatga cgaacgcgtg 300
gaggccgatg ctggcgctcg gcaccaagtg ctgccccgcg gaggacgcgg cggtgggccc 360
cgacggcctg gcgcggtgcc ggccgcagca gtcggagct 399

<210> 16245

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-G5

<400> 16245

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gctttgttta ttaccaatct attatctggt gttgaacagc agcacattgc agaacagatg 120
atcgctgagt gaccttcata tacgcctgta actctctctc tctccctctc tctcagctca 180
gcagtttaga tcgactatac tcattggaca tggacctatc tatatatctt ctttgtaaac 240
aggacagagt cggactcctg ctgcagtatt atcaactcat ctattttaaa ctctttaagt 300
tggatttaaa 310

<210> 16246

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-G6

<400> 16246

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agcaggagtc gcatcccaga ccaccccccc cgcatcagag acaggcaggg agggaaactga 120
gatccgtccg tccgagtcga tggagtcaac ggtggagcgg ataagctcgt cagtgcagtc 180
ctgggtgaag gaccacgagc tcgcagccat cggaggcgtg tgggctgcgg cgggtgggcgc 240
ttcgggtggcg tacaaccgga ggaaggcgcc gcagcactcc cgcacagagc cagcgcgggga 300
tccgcagcgg gggcgagatc cggggcgagg gcgacggcgg acggtgcctg tgcggtcgtg 360
ggggacgggc acggtggggg ctggtgggct gcttccatgt gcgcccgtgg gaaggtgcgg 420
g 421

<210> 16247

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-G7

<400> 16247

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gctgaagttg taactgatgc tgcattagat gagaccgga agtgggaaca agggccattg 120
cttagaataa gggctaaact gaaggttgct caagcattgc ctatggaagc agttgaagca 180
tategcaccc ttcttgctct tgttcaggca caacggaagg cttatggatc tgtcaaaaat 240

ggcacagagg ataatgagga taaagtgagg gaagttgaag tttggcatgg tcttgccaac 300
 ctgtactcta gtctttccta ttggaggaga tgcacaaatt tgcttacaaa aaggcaaagc 360
 cctcaaaaca tactctgcga acaaccttca tgtaaaaggg aacaacaac aactgc 416

<210> 16248

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-G8

<400> 16248

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 ctccaecacc gccgtcacgg cgctcccag gaatgggcag cgggcgtcgt cctccttctt 120
 cggcggcaag acgctgctga gacaagccga ggccggccgg ccgtcgttcg ccgtgcgcgc 180
 cgcggcggac cccaacaggc cgatctggtt ccccggcagc acccctccgc cgtggctcga 240
 cgggagcctt cccggcgagt tcggctttga tccctggggc ctccgatctg acccgagag 300
 cctgcggttg aacgtgcagg cggagctggt gcactgccgg tgggcgatgc tcggcgcggc 360
 gggcatcttc atcccgagt tctgaccaa ga 392

<210> 16249

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-H1

<400> 16249

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 ggccttcgcc gagtcaagg tgaaggagct caagaacggc cgcctcgcca tgttttccat 120
 gttcggcttc ttcgtccagg ccatcgtcac cggcaagggc ccgctcgaga acctcgctga 180
 ccacatcgct gaccagtc acaacaacgc atgggcctac gccaccaact tcgtccccgg 240
 caactaagct caacggctat gctatgcaac ttcattgtct ttcggatcgg agaggggtgta 300
 cgtacgtgga ttgattgatg ctgcgagatg catgtgtgtc ctttgtttca cgttgcattg 360
 cataggcaag tcgagatgat gagttggcgt tgtacactaa gatgaaccat gtttgt 416

<210> 16250
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-008-Q1-E1-H10

 <400> 16250

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 tccatggaca tctgggagtt gtagtcggcg atgagcttgt cgcggggccga cctctccatc 120
 atgtagatct ccggctacaa ctccatggac atctgggact tcaacgagaa gtacggcgag 180
 ctctgggact tcaccgtcaa caccaggac gacatcgtca agtcgacctc gatgcattgc 240
 gtacaccgct cgtcgccctt cagattgttg cctcacagca aaaaaaaccc tgtgaaagga 300
 agctgtagct gctaggaaaa tctcttgaat aaaaacgaaa gccatccttc ctgtaagact 360
 ggagagcctg aaaatctgtt ctatcctcgt gccatataat acacgacatg ttctgcagac 420
 t 421

<210> 16251
 <211> 181
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-008-Q1-E1-H11

 <400> 16251

acggcgaccc tgcccctgcc ggccaaccag taccaacccc attgcaagga ccagcccagc 60
 gtgcgcatctc aacatcccgc atctcccaga tcgtgcgcac ctacctagac ctctccagtt 120
 ccaggaagcg ccgttccgct cctaagaacc agcccaaggc cggggacaag gaaagggatg 180
 c 181

<210> 16252
 <211> 375
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-008-Q1-E1-H12

 <400> 16252

caccatggag tttgtagtgt ttggtttaca aggtaacttc cgcgttcgag cccacccgtg 60
acgatgaggt ttgggatgaa cttgggcggg gaaacgagca aaagaaaaca gaatagaaca 120
aacgaaccgg cttcagccca tgccaaccag gagaagcggg ggggtgctgtc tgatttcgag 180
gttgggaaac ctcttgggag gggcaagttt ggccatgttt atcttgccag agaaaaaagg 240
agtagtgaga ttgtggcttt gaaagttctt ttcaagagcc agctcaagca atcacaggtt 300
gagcatcagc tgcgacgtga agtggagatt cagagtcatc ttcgtcatcc taatattctt 360
cgctgtatg ggtac 375

<210> 16253

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-H2

<400> 16253

ccccgcgcca agaacacgcc agctagcaag cgcgctcgat cgaataccgt taccgtgtcg 60
ccatggccgc caacgcgtct ctatcaaccg tcggggcgcc gctgtcggtg cccgggctca 120
ggaagccgct cggcgtgtcg tcgctccggg ccctgcagcc gagggcgggc aagatgacga 180
cgacggccgt gcgggcgtct gggtcgccct cgtccacgtc catcaaggag aaagctgcgg 240
ccgggctgac cgcggcgggc ct 262

<210> 16254

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-H3

<400> 16254

cgcgagttag tgaacaccag ccgtattgtc ccgactcctg acccctaccg atcctcgctt 60
gctgcagcca tggcgacctc cgcggcgctc tccaccgcgc ccaatcccac ccagctctac 120
cgggtcccgc cttcgctggg caagccggtg aaggggcttg gcctgagcat gggccgcgag 180
cgcgcccagc ggagcattgt gtgccaggcg gcgagcagca tctccgccga ccgcgtcccc 240
gacatggaga agcggaagct gatgaacctc ctctcctcgg gggccatctc gttgcccacc 300

gtcggcatgg tcgtccccta cggcgccttc ttcgtccctg ccggctccgg gaacgcgggc 360

ggcgggacct acgcgaagga caagctgggc aacgacatca cggaggaggc gtgggtcaa 419

<210> 16255

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-H4

<400> 16255

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agtacatagg tacaggcggc gtacagcatg caatgcaaca tacaacgctg catgcatgtg 120

tgcacgtgta gttgattgag ctcaacgccg cttgacggga tcgaagttat agacaacgac 180

gacggcgccg acgatggcga cgagcacgac gcctccggag acgatgctga ggaggaaatt 240

cttgagcgac ggcgagatcc cggggcgggg ctccgcgacc tccgggagca ccagcgccgc 300

cgccacggac gcc 313

<210> 16256

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-H6

<400> 16256

ggagtttgat ccacaaacct gcacttggtc taccttgctg acttatggaa ggtcaccta 60

ttcacgtggt ggtcagtcag tgacccttgt tggagacact ccagtgggtct ttggcggtga 120

aggatcatggg agatctcctc cgaatgatct gcacaatctt gatcttgaga ccatgacttg 180

ggatgaattt gagaccacag ggactcccc ttccccaagg tcagaacatg ctgctgcttg 240

ctttgcaaaa cggatctcctc tgatatttgg cgggggggtct cattccacat gtttcactga 300

cctacaactc cttgacactc agacaatggg atgggtcaaga ccaaagcaac aaggtgttac 360

tccagaatca agagcaggac atgcaggtgt aactattggg gaatattggg t 411

<210> 16257

<211> 379

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-H8

<400> 16257

aagaaagccc tcgtcctgac ccctcgcaaa accctagctc caaccaccat gaagggcaag 60
 ggcaacgcct ccaagaaaga tgaggccagg ctccgggccg gcggcggcgg cgccggaaaa 120
 cgcaagaaag gcgcgcgag cgggaagccc aaacgccctc cctccgcctt cttcgtcttc 180
 aagtctgaat tcatgcagga gtaacaagcg cagcaccctg gcaacaagag cgttgcgggc 240
 gtgagcaaag cagcacggga aaaatggcgc tctatgtcag agcaagagaa gcaaccctat 300
 gtggaccaa ctgggcagaa gaagcaggac tattagaaga ctaaggcaaa tattgagaag 360
 gagagcaca gctcaaaga 379

<210> 16258
 <211> 366
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-A1

<400> 16258

gaagatgcct ttggcttaga gaggaagcat catcttcaca gaggaatat tttgctcttg 60
 ctccgcctc cccccggtag ctgttccag aatcgacttg ttcgcttctc tgtaaagttc 120
 ctgaccttgc cctggtagta agatgtatca tagcacaggt ataaggctct ctgctggctg 180
 ccgagcttgt aaatgtagaa gattaggtgc ttaataaaag atcgaaagga tatgtttttt 240
 ctttcgtttt tctttgacag catttgtaag aaaaaaaaag aggctgacgc tcggcccaga 300
 tcgtggcgct ccgacgtcga ttattggatt taaccccgcc gatcccttg gaggtgtttg 360
 gttgag 366

<210> 16259
 <211> 386
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB83-009-Q1-E1-A10

<400> 16259

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ctacctctga tagccaagga tgacttgccct atgtcctttg ttacaaagg acctgaatgt 120
gtggaccatt gagaggttca tangcagtct ccttggttag cctgagtggc ccctattgct 180
catgctaggc ttaatcgaga ctctttgact tgggtgcacgc aattagacac aggagtctcc 240
tcgacttggt catgggcgtg catgcaatta gacacgacct tgtcatatgt agctgtgttt 300
cagtgtccat gcatgctcca ttcttagcat tttcttgaaa ggccaatata gcttggcagt 360
ttctctggaa agaatcagca tcaaac 386

<210> 16260

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-A11

<400> 16260

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ttgggaagca gctcaggac aaatacgtg agacacagca gcttctctc cagatcgctg 120
ggcacaagga tattcttgaa ggcatccat tcctgaagca ggggctggtg ctgcgcaacc 180
cctacatcac caccctgaac gtgttcagg cctacacgct gaagcggata agggacccca 240
acttcaaggt gacgccccag ccgccgctgt ccaaggagt cgccgacgag aacaagcccg 300
ccggactggt caagctgaac ccggcgagcg agtaccgcc cggcctggaa gacacgctca 360
tcctc 365

<210> 16261

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-A12

<400> 16261

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gagattacat cactgttttt ttcttagcga tatgttgagc tcatgtgctc gtttatgtta 120

gtcgatctct ggctcttgta gtaacttgga aagcttgctg ctttttttaa gggcatacat 180
gcctgtgatg tgtgggtcatg atcatttttt tctcctgtta ttttagttgt cgtatcataa 240
atgccatggt tgcattgggtg ttccaacatg tcaatattat tgaataaatg tttgcattgg 300
cggcagcggg gacgacgcta agtcgagcaa tggcgaagcg gcccggtgtg gcagtaacgg 360
tggagagaag caaggggatg aatc 384

<210> 16262

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-A2

<400> 16262

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tgtggttcaa gctttttacat tgctgaaatc aagcacagag gctcagagtg ttgtcgcttc 120
ccttgcattca gatagaaatg tctgggatgc agtattgaag aatgagaagg ttatggaatt 180
ttataagact caccagacaa ctccagttca gacattccct gaggaagcag ccacagcaga 240
gtcgctggg aagtttgaag atgccacctc tgaaaatgca tccaacagcg aactccccac 300
gggctcaggc gcaagtttgc cagatttcgt ggacaatgcg aagaagaaag cgatggatgt 360
ggtccacaat ataaccgact ttt 383

<210> 16263

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-A3

<400> 16263

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acccccgaga aggttcaagc tgtgctgcta ctttttaggac gtggtgaact accacctggt 120
ttagctggca tggttttacc caatcaaaat gaaaacaagg gctatgacga tatacttcag 180
aggacagaca ttccagcaaa aagggttgct tcactaatta ggttccgtga gaaaaggaag 240
gaaagaaatt ttgataagaa aatacgttat gctgttcgca aagaagtggc actcaggatg 300

cagcgtcgga aggggcaatt tgctggaaga gccagtctgg agggagaatc tccagctcct 360
 ggatgtgatc ctggttctca aggctcaa 388

<210> 16264
 <211> 269
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-A4

<400> 16264

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 ggttcacaga aatctgcgaa tcttacaggc tcgcagccgg gtacaccatt gtcaggtgga 120
 actatgaatg gtgggaattg aagtcaagga acctaaggga ctaaccaact tcttgggaaa 180
 agggaaattc aagatttggg tgcacaagta aattccttaa gcaaaggta cccaaaagtt 240
 gaagatttac ctccaaaaat ccctgaaga 269

<210> 16265
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-A5

<400> 16265

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 gttcgagagc tagctagaga gagagagaga gggacaacga ctaaggcaag ctagctcacc 120
 gatatcgaac gaatggaccg tgtgatgcag ctggcgctcg agcgtgcggt ggttgtgttc 180
 acgctgagca gctgctgcat gtgccacacg gtgacgcagc tgatggcgga cctgagcgtg 240
 aacgcgctgg tgcacgagct ggacagcgac cccaggggca aggacatgga gcgcgcgctg 300
 ctcaagatgc tgggagggag ggcgcccgt gtccccgccc tcttcatcgg cggcaagctc 360
 gtcggcggca ccaacaatgt catgtcgctc 390

<210> 16266
 <211> 361
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-A6

<400> 16266

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tggtggcggt caaggtggac gtgtgcaagg acctcagcgt cgtggacgag ctgggcaaca 120
ggaaggtggc gctcggcagc cacacgctgc acgtcgggga cctcaagcac acgctcaact 180
tggtgagtcg atggccgaga ggggaatggc taccaagtac caacgtgaag gcagttggaa 240
tttggagggc tggatgggtc ggaggcagtc ggaagagaaa gttgtcagaa attggtcggc 300
aagtgtctaa taaaggcttc ctgttgggaa agaattggat ccacgggcag ctttttagtc 360
a 361

<210> 16267

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-A7

<400> 16267

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ggaaccgcgc gagcgacctc gtggacgggc tgttcgttgc cccgaggac cctaggcagc 120
tgaataagct ggccaggaag aacgtcaagg aactgcgcg caagggctgg ttcgacatgc 180
cagctccgac catcactccc gagttgaaga aggatctcga gatcttgcag ctgaggcatg 240
taattgaccc aaaaaggcac ttcaagcggg caggaaaatc caaggccctt cccaagtact 300
tccaagtcgg tacggtcggt gagcctgcat ctgagttcta ctcaagtacg ctgagaaata 360
gggaacgcaa ggcaac 376

<210> 16268

<211> 201

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-A8

<400> 16268

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tactcgcgga tgaacggaac accagccagc gccatgggca cgatcgacga cctccgcctc 120
 cgtgctgtcc gcaccgtctg tggccggggc tctcctgtcg ctttctcgcc aggcgcgtct 180
 ggtcttccgc gcggctcggt c 201

<210> 16269

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-A9

<400> 16269 .

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 gatggctctga atgggttagca aaagacgagg agagtagaca aaagttgtct atgcaagaaa 180
 attcacaaga gactgaaaca ggaggctgga gtgggttggtt tgatccttct ctgggtaata 240
 ctgagacaaa tgatttatca aacaaatcac tggaaccatc attgaccgat ggaaatgatg 300
 ctgaagacct tgatgctgag gactcaccag cacaagatga tgttgaatcc ttgctgaaaa 360
 a 361

<210> 16270

<211> 370

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-009-Q1-E1-B1

<400> 16270

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 ggtatggcta tgggacgaaa aatgacaaga ataaggatgt ggatacaata gcttcggact 180
 tcatcaagct gaagcacaag gcttgggcac tccagaagag cacaaccatg taccaacctt 240
 ctacctaaag gtgtcaatag ttcaagaagt tgatactata tacttatgct tgtctctgta 300
 tagtctataa gtcttaattc aaataacagg tgctgcttgc agccttgatg atttgcggat 360
 gcngagtga 370

<210> 16271

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-B12

<400> 16271

cgcggatcga cgcacgcctc taaacatgog tcatgagtgg tctcctccg ctgccaatcg 60
ttggaccttg cccctgctgc gacgtcggcg gctccccaca ccctctctc cctggctcct 120
gagcttcaac cttggggctt gtgccctctc tgetcgccgg ggacctgcgt cttctccagc 180
caagccatag ccaagctcct ctccatagcc gacgcccttg ccctcctgct cgccatggct 240
ggccatcgga tgccgcacag caacctcgcc gtttccgagc ccgagcccg ccatggagctc 300
acggcgctc ct 312

<210> 16272

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-B2

<400> 16272

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cataagctcg aaagattact ctccagatga caatcagggg cttgattatg aaacttccat 120
ggggaggata catgcggttc tttcagatgg aactgttgtc acagacgttg aggcatttag 180
aaaactgtac gaggaagtag gacttggatg ggtttatgct gttactaagt atgagcctgt 240
agctagcatg gcaaatgcag tatatggttt gtgggcaaaa taccgtatgc aaattacagg 300
tcgacctccg ctagaagaga tcatggcatc ccgaagagct gcaggcgaat gtaaagatga 360
caaagtatgc aagatgtgag cataaagatg tt 392

<210> 16273

<211> 144

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-B3

<400> 16273

taacattttg ccacttaa at tgatggggaa gacactcaga tgtgtaagtt aagaatgcac 60
agttcctacg tgtaaaaagc ttagttccag tacttgaact ctcatcagtt gggacaaaat 120
cgcaataaaa cctcgaattg ctct 144

<210> 16274

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-C1

<400> 16274

actacgagta tgcccatacg tccatgtgac gtatgctacg atatgatact ttgaatacca 60
tattctgaca agtatctcca acgagcatgc tagtgcagat caccttgtct agtcacgcta 120
tgcatttata aatgggtcact tgcattcatat ttcgctcaga agtttttagac tttccagtgg 180
tcaaagtcta cgtattcaat cgatgccatg ttactctcta actatgcaca ctctctctca 240
tgcaaagtgc tactgcctta gtgagtgtaa ttaattatca catctgtcag ggagagctac 300
aatcgtcaac aacatgctct aattaatgtc ataatgactc tttcatcgtg tctcaaataa 360
cctggatttt tccttttgcc ttgt 384

<210> 16275

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-C11

<400> 16275

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tgttcaccgc gttcctgtcg gtggcgagtg ccctgggcac cccgtcgctt ttcgctgcca 120
tggttctttc attcctctcg aacctcatgg gcggggaccac ccactacggc atcggctctg 180
ctcccgcttt ctacggcgcc gggatatgtc cattggctca gtgggtggggc tatgggtttg 240
tcatctccgt tgtaaacatc atcatctggc tcgggggtggg cggcttctgg tggaagataa 300
tcgggctgtg gtgagcagag agcagcacat taactgcgac atcccttttg tttttctgtt 360

gtttttttgt cgagtggggg gaggaaaact attt

394

<210> 16276

<211> 380

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-009-Q1-E1-C12

<400> 16276

aaaatatgat gctcatgttg ttggtattga tctttccata aacatggtat catttgact 60

tgagcgtgcc attgggcgca gttgctcagt ggagtttgaa gttgctgatt gcactacgaa 120

gacataccca gacaacacat ttgatgtcat atacagccgt gatactatcc ttcacataca 180

tgacaaaccc tctttgttca aaagtttttt caagtggctg aagcctgngg gcaaggctct 240

tatcagtgc aactgcaagg gtcccgggaa aacatcaaaa gaatttgcag cgtacattaa 300

gcagagaggt tatgacctac atgctgtgga ggcttatgga cagatgttga agagtgcctg 360

ttttcgtgat gtcattgctg 380

<210> 16277

<211> 218

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-009-Q1-E1-C2

<400> 16277

cccactcggg gaggtggcgc tctcggagat cgagaggctc ctgatgcagg agggggaggc 60

ggagctgggc ggggaggctc atgggatcag cgtggaccag ttcttcgacg cgctgtacga 120

cggcggggag gcgaaagatg agcgggaggc gngggcaagc gcggatgcgg actccggtan 180

ggacgaggcg ctggaagtcg tgacgcccag aggcggga 218

<210> 16278

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-C4

<400> 16278

cgcgctccgcc cacgcgtccg cccacgcgtc cgcatcagca ccgagcgaac agggaacaac 60
gagaggccga caagcgcttt agcgataaga ctgggtgcacc cgtagcggca cggcatggcg 120
gccacagcgt actccgtggc gctcctcggc tgcgcacgcc tgccggccgc cctcctccct 180
cggcgcagca tcgtgtgcca ccagcagctt cgctccaag acgcgccgag gctctccctg 240
caccgtgcca gggccgcttc cgacgacacg tcggggtccg gcggccacca gctcatcgaa 300
gacctcaagg caaactgggg acccgttgag gaaaagcccc acgtcctcct g 351

<210> 16279

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-C6

<400> 16279

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taggggtttcg gtcccggcgt gcttatccgc ccccgccggc catgtcgaag caaggaggga 120
aggccaagcc gctgaaggcg cccaaggccg acaagaacga gtacgacgag acggatcttg 180
catatctgca gaagaagaaa gatgaggaaa aagcactgaa ggagcttaag gccaaggcac 240
agaatggcgc gattgggggc tcgggtctga agaaaagtgg aaagaaatga gactggtcac 300
ccgtctccaa tacctagagg atgataaggc agctgtctat ctgtgttgcg cttcactaag 360
tg 362

<210> 16280

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-C7

<400> 16280

gcgctctgct ctaagtggac ttcttaagga tgatgggatt ctggtgattc caactgcttt 60
ggggtgcccc ccgaagctta acgctaagga actctcgtct gaaagctaca attctcagac 120
actacgcctt ttgtcttttag ctagcatgtc aggggtgttg caggttttcca ttcttttggg 180

tacacatgat aagtgtccca tttcagtttc gttgattgct aggcattggtg gtgatcggtt 240
 tttgttgac accacacaaa ccatgtatac aaccatccaa gagcaagtgg agatactagc 300
 gaaatctagt gtttcaagta aacaggcgat gaatgaagaa gcagctgaag ctgctaaaga 360
 gaaaggtaat gctgcattta aggaaaaac 389

<210> 16281

<211> 263

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-C8

<400> 16281

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 caccgtcgcg cttctgtgat ctgggccaac acacctagcc aatggagccc gtccgcatgt 120
 cactgttccg cttcccacgc cgagggtgggt taccctggaa gtttagatga aggaagtga 180
 gatcaacacg acattactag atgtttgatg aattgtgtgg atcggatccg tcattagttt 240
 ggtacgctaa tgatcaaaat gcg 263

<210> 16282

<211> 278

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-D10

<400> 16282

ctcgctcgagc attccgaggt cctacagtca gtcgtattac agctgcagca agaaagaata 60
 agcgagcgcc tccctaacgc tcgttgtcag caagggccaa cagcgccgcg tccagccgcc 120
 tcaagtcgtc cttctcgggc tcgcggctcc cttcgggcac gcggagcacc accccgtcgt 180
 ccgtggccgt cgccaccccg gacgcggcg gctgcccgat ccgcgcgtcc atctcctcct 240
 caccoaacc ggccctacaac ctgacgtcct tccggttc 278

<210> 16283

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-D12

<400> 16283

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catgtgctgc gccaacgtga gtggctgtcg ctgaatgggt cgactgggtga agtgatcctt 120
ggaaagcagc cgctttcccc accagccctt agtggcgatc tgggaacttt catggcctgc 180
gtggatgatg ttagaaagct caaggtcctg gctaacgccg ataccctga tgatgcaatt 240
aatgcgccaa acaatggggc acaaggaatt tgattaagcc ggacagaaca catgttcttt 300
gcttcagac 309

<210> 16284

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-D2

<400> 16284

gatgcacgaa tcgctagggt ttcactttac tcgtggacgt tgctattcca ttctctactt 60
tattatTTTTg tcacaacatt agcatttttg cattcttacc cacagtgaat tatatgtaat 120
cttttccttc ccatttagaa catgcacacg gtaaggaagc aatgctatgc ttgtttttgc 180
agaaccccgga ccacatccgt gctgttttgg catgctgctg cttctgtagc ttctgcatca 240
ctagatgtct ctgaagaaca tgagaatgtc tccagaccag cagcctttcc agcttcaaatt 300
ctcgctctcc tctcaacagc ctctcgacc ctctgcgcaa actcttcacg agaaccagtc 360
agcatgtaac gcagcttcat gttgatcctg ttgcgcaaca aag 403

<210> 16285

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-D3

<400> 16285

accacacca aacctcagct cccaccgacg ggttccatca acctaacaat ccctcgcttg 60
ttagcccgcg cgcgtgtgtc gtgtgcgctg cgtgcgtccc atggctcagc ctgcgctgca 120

cccaaacgcg gcggcgggcg cggtgacct ggagatgggc ggcaacggcg gcgtgttccc 180
gcccgtgccg gttcgcgggc agcccgccctc cgtgaaccag cagcagctcg gcggcgggccc 240
ccacacctgg gtgggcaacg acgccaacac gctgctggtg gtggccacgc tgatcaccac 300
gctcacctac cagctcggca ccagcatccc cggcggttac tggcagcatg acacgacggc 360
ggcgtcgagg ga 372

<210> 16286

<211> 393

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-009-Q1-E1-D4

<400> 16286

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tcgaattatt tggttctaatt ttcagaacga atgaaacact aagttctaag cttttggatg 120
gtgacacaaa gaaaaagaag atatattgta ggctccttct tagtattgat cgccgcgaga 180
caacttcggc tgcattggat accgttaatc tagccatgga aatgatggac caagggtgca 240
taggcattga cttttctggc aatccagttg tgggggaatg ggaaacatac ctgcctgccc 300
tacaacatgc taaaaatctg ggaatccccg ttacaatcca ctgtgganaa ggtgcgaaac 360
ggaaggaaat ccaagcagtg ctggactttt gcc 393

<210> 16287

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-D6

<400> 16287

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cgaccggagt ttttctgcg cgcaccgttt tcccagctcg gatttcgcga gccaccgttg 120
tcctatccgc gtcagcacgt gaccgtgggc gtgttcaacc agtttggaac cgccttggtg 180
acgaatccaa tggcctccct ggtgccttgc tccgtgggtg ctcaagtttg gcctccaact 240

ggtgaaaacg gtccccctg gtctgatct ccttaaccgt agaaccctcc cgggaatcct 300

<210> 16288

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-D7

<400> 16288

cggacgcgtg gggttcgaat ccgtatagcc ctaatatata cgtctttttt ccatttttagg 60

atggatatct tatgtttcct ttagtatagt tttcttttcc ttatttagta cttgtttata 120

gactcgacgg tcgattgcgc catagaatag agataaaagc attaccatag gctcattcat 180

cgaaacgcaa atcagagaga caggaaaaga aaaaagaatt ttgatcaaat caatagaagg 240

aaggatccct tacctgattt gaatttcac ctccttttaa taggatatgc tctaagtctt 300

cccatacttt cctataatga ctgcaacgat tttctccatt ttgcgaattc ctattttatt 360

tgaagtatat tactatcata tacattatct aaatcg 396

<210> 16289

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-E1

<400> 16289

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gtttgcttgg tatccctcca tctaattggag tgcttctcca gtctcccatg cacacaaaaa 120

gtcttgctgt ccttaagagg cagttgctaa gcaaaaagat gggttgatact gccaaaggaga 180

gcataggagg aagtgctacc agtttggaat tatatggcaa gatggaagaa gttttcatca 240

aaatggatag cgaacagaat actgattctg ttgacaggga gttgaagaac ttcaaggatg 300

ctgttctgca agaaggcgac gaagaaggga gattggctag agaatttgac cctcgcaaac 360

atatagaagc ccacttgctt gtccgagtga acgaacagag actgagcaat ct 412

<210> 16290

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-E10

<400> 16290

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cttcctatgt gaaaaagtgt ctagaaaagg tcggactgag ccagtgcac ccatgttcaa 120

ctccaatgga agctaagctg aaactgtcca aggacagtga ttcttctcga gttgattcat 180

ctgaatatac aagtttgatt gggagtctga ggtatttggt gcacactagg cctgaactga 240

atttcagtgt cagttatctg agccgtttta tggaggcacc aagtcaggat gaccttgag 300

cagttaaaca ttacttcga tatgtagctg ggacaatgga gcttgggctg ttttatccca 360

gaagaacac 369

<210> 16291

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-E11

<400> 16291

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gcagccgcat cgatggcgcc taaggcggag aagaagccgg ctgcgaagaa gccagcggag 120

gaggagcccg ctgccgcgaa ggccccggcg gggaagaagc ccaaggccga gaagcgcctc 180

ccggcgggcca agtcgtccgg caaagaaggc ggcgacaaga agggtaagaa gaaggcgaag 240

aagtcggttg agacctaca gatctacatc ttcaagggtg tgaagcaggt ccaccggag 300

atcggcattc cttccaaggc catgtccatc atgaactcct tcatcaacga catcttcgag 360

aagctcgccg gcgaagctgc ca 382

<210> 16292

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-E12

<400> 16292

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cacgtcaggg agtcataaat ggagcatcct ttgggtctga actttggtaa acatcatctc 120
cctatccgga gaaacatggt tgtgtgggtca caggacttcc agccaaatac cgtgatccca 180
atacaaggct gccttattca actacggaag catttaacat aatccgggag agtttctctga 240
aagaggaggc tgatagaaac cgtccgaaac atgtccacta ctggagagct ttt 293

<210> 16293

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-E2

<400> 16293

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atctttcccc tggagggacc cgcacaggga ggaagatct agggttgtct tgagatcggc 120
atgccatcca agacgcatcg agacgacgca gagtcaaagc gaggtgaaga ttgagtttgg 180
gaaaccacaa ctagggctac actacaccta ctactaaagc atgaatgata aagaaggtaa 240
acggattggg tcgatcggaa tgtgtacatg ggtactcaat cggctgtacc cctttatatt 300
atatggggag gtctagactc gttactaggc gagatccaac tgatttccat ggatatgtta 360
ggataatcat gtgtgggata aa 382

<210> 16294

<211> 89

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-E9

<400> 16294

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gttcttcaat acatcatcaa ttatcgatt 89

<210> 16295

<211> 162

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-F10

<400> 16295

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tcgatcctat gtttcccgtt ctcaagaagc gcagctgcc atgcggcact gtccacgcga 120
agcctccgac cgccacgcgc cgagctggct ggccgcggc ct 162

<210> 16296

<211> 118

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-F12

<400> 16296

actcgtctag cactcccggg tcgaaacact cattcgatag aggtcccttt catcggatag 60
tattcgaatc aagtagattc aattctggac atcgtctttc ccagaacagg gactacat 118

<210> 16297

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-F2

<400> 16297

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gcacgcacag agcatcctgg ccactctggc gtgccagggtg gtgctcatgg gtttcgtcga 120
gggctaccgc gtcggcggcg gcccgctcgc ggaagggctc gacaagggtg accccggcgg 180
cgcttcgac ccgctgggcc tcgccgacga cccggacacc gccgccgagc tcaagggtgaa 240
ggagctcaag aacggccgcc ttgccatgtt ctccatgttc ggcttcttcg tgcaggccat 300
cgtcaccggc aagggcccca tcgagaacct ctccgaccac gtcgccgacc ccgtcgccaa 360
caacgcctgg gcatacgcca cgaac 385

<210> 16298

<211> 120

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-F3

<400> 16298

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gctagccggc gacatccgtg tcagtcctaa ggagaaaacc atgttcttcg ttaacccgtc 120

<210> 16299

<211> 262

<212> DNA

<213> Zea mays

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<400> 16299

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tggctcttttg catctggagt caatgtgaac aagcagattg tcgtattgtc tttctcgtaa 120
taaatttgtc gatgttgagc ccttaggctg ttgttggtac attggtactt cgtcgatgct 180
tgaattggga cccttagtcc gttttcctag actctgatgc tgtatgcaac tgaaacaagt 240
aaatctatga tcttaaggct gc 262

<210> 16300

<211> 63

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-F8

<400> 16300

cgacacacgc ctctagccat gtgtctgatg acatgcacgc ggagtagaag ggacgcagaa 60
atc 63

<210> 16301

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-G1

<400> 16301

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aagggtcctg cccaaattgt ggcgagcagg tatttgcatt tgtcaagatt gaaaaaacg 120
 tgagagcacc tcacgagca gaatgccatg tctgtcagtg ccctttggag taccgcacga 180
 aaattgagaa atcttcgtca gggcctagaa gaagttgggt ctacggccgg gtttatctag 240
 tgaagcaagg gcatcctgaa acggaaatgg ataaatgaaa aattctaatt gattgagact 300
 gctgagggaa gtttagataa tcccatgaga tggcactctt ctggtcgact gaaacatttt 360
 tcagatgcca c 371

<210> 16302

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-G11

<400> 16302

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 atgaaactgg gggtcaccac cacaattgaa gctgggggtc ctgtgggtctt acccgcaacc 120
 attgaggtcc agagcgagtt caactccacc tacagctggg gcgagtccat catcgagaaa 180
 gaagagtact ccaacgccta cgaggtcgtt gtgcctgcat actccgtcgt cacggtcagc 240
 gtactcgcca cacagggcat ctgccaaagtc cccttctctt atactcagga ggacgttttg 300
 actactggag agaggaaggt tttcaagttt gatgacggca tcttccgtgg tgtcaatagc 360
 ttg 364

<210> 16303

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-G12

<400> 16303

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 ccgtccacgc gagaagcgag agcatggaca ccaggtgaa gcttgctggt gtggtgaagg 120
 tgatgggcac gaccggctcc aggggtcagg tgaccaggt cagagttaag ttcttgatg 180
 accagaaccg ggtcatcatg aggaatgtca aggggcccg cgcgagggt gacatcctca 240

ccctgctcga gtccgagagg gacgccagga ggctgcgctg aagccctagc gttcttggtg 300
 ggctcttggt tggctcttgg tgtcttcgaa tttgtgctat gtttgaactt ctgtgaccct 360
 gtcttga 367

<210> 16304

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-G3

<400> 16304

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 gacaggatgt gggcaaggct tctgtcgtcg accaaccagc cgagcttcct ctgcaacaaa 120
 gtcacgaag aggcaaagaa ggagcaggaa agagcggcgc agctttttaga tggctcgcct 180
 tcccatcgga aggttgacga cgaggttgca gcttccaact tgggtcgtac caagtgaggt 240
 gaaccttttt ttcctgtcca aagtttcagt agctatggcg accgggtgttg ctgctgctca 300
 gtgggtctgtg ctccctgtcc attttttttt ctaaaaaaag aacacgttat ccctttctag 360
 tttaaacaga gtgttgaata atatcgt 387

<210> 16305

<211> 331

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-009-Q1-E1-G4

<400> 16305

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 gatgaggttg ggaatcttcg tcaggaagaa agctgccgag agaagggcgc agctggtcga 120
 gctggaggat tgacaccgtg gctttacaat ggtcaagggt gccttgtaga ttactagtag 180
 ttatctgccc ccataccttc ctgttaccgt tgaaacaagt ttctgaaact cttttctgan 240
 atgtacaacg agtagttcta ctatttcctt gtacagaatt caccttgttt tgattgtgtt 300
 agttgtggaa cattgctctg ctaagtttga c 331

<210> 16306
 <211> 315
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB83-009-Q1-E1-G5

<400> 16306

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cgtcgcttct ggcggccggg gcagttatca gacctctcat ttgtctttcc cccacaatc 120
accgccacca cgatgcactc taccctctctg tccccaatgt gtggccacgc caccggcgcc 180
gccgcagggg cgcagttgct tccgtcgacc aggaggagtc tagtgcctcg gaaaccgcag 240
tcgctcccga ggaagacctg nggccaccgg tatectctga tgcggctgcc gaggacgggg 300
tcgcgacttc tgccc 315
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<210> 16307
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-G6

<400> 16307

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gcaggcatgg cttcaaaaga gaaggcagga gaacatggcg aggaaagcag ctggtgagga 120
gccactacca gaagaagatc catccaatcc tatattttaag cctatttctg agccctcacg 180
attggagggc tatctagtaa ctaatcagat ctgcagttac tgcaaccata tcaacggggg 240
tgctggtcag aatttcgaca ggctatacct gatgaaggcc ttgcatgagg attagaagac 300
tgggctgtga tgaatgctgt tagaattagc ttgtgatact gctcaaaatc gtaattttgt 360
gatgtacctt tacatgggcg tgcctgtcct 390
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<210> 16308
 <211> 334
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-G7

<400> 16308

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gccgctgttg agactgttgt cctcaacgtt gctatgtcat gcgaggggtg cgccggggcg 180
gtcagaagag tgctctccaa gatggaagga gttgaaacct tcgacataga cctcaaggag 240
cagaaggatga cagtcaaagg caatgtcaag cctgaggacg tcttccagac ggtttccaag 300
tcggggaaga ggacctccta ctgggagggc gaag 334

<210> 16309

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-G8

<400> 16309

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gcacgttgac ggcaggaagc tcattaccca acaggaggct gaggatagtg atttcgagag 180
ctatttgaga gaagcaacaa gccgagtgtt ttaccagcca acattcattg aagaggatga 240
tgatgatgat tctgtttcgg agagctcttc agcatcattg gccaaaccag ctggaacttt 300
ggatcttggc aagctgacag aggaaccaca gcctcacgc agtgtggatc caaaccattc 360
gtatgatcaa gtgtttatta gatccact 388

<210> 16310

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-H1

<400> 16310

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caaggatgag actgatgatt tcgaggatgt cggtcacagc aacactgccc gcgcgatgat 180

ggatgagtac ttggtgggtg aaatcgacgc gtcgacgac ccttccagga cgaagtatgt 240
 cccccgaaa caaccgact acaaccagga caagactccc gagtttgtca tcaagatcct 300
 ccagtttttg gttcccttg caatcctggg cttggctggt gccgtagga tgtacaccaa 360
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<210> 16311

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-H11

<400> 16311

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 ccatgtattg aaaattcttg atctcagaaa tattaagaa cttccacgac actatatacct 120
 gaaaagatgg agaaaagacg ctcaaagtga atctccagag aactatgggtt ttgctgccat 180
 agatgaagat cctaagtttt cattgtcaaa acggtacaac gcattatacc ggaatttgta 240
 taaaattgca gcaaaagctt cagaaagcgt tgaagcttat gcattcctgg agaaccaata 300
 tgaacagctt gttgaacaag tggaagtact tctgcaagca aagttgcatg ataaatcttc 360
 cttaagtacc atcctg 376

<210> 16312

<211> 245

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-H2

<400> 16312

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 ttgggcctca tgccccacag ttaatctgct gtgcctggtc aaaatttcta ggcctggacaa 180
 gagctgcttt tgtaagctgg gcaatcctgt atcgtgatgt atcccatggc ccttgcattc 240
 ttcac 245

<210> 16313

<211> 270
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-H3

<400> 16313

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aagttatcag taattgtgct aaatttgctc aaaaccctga ttcaaaaagg aaataaatcc 120
tccccgggtg gaacggacaa caattaattc cggggaatcc caagaataaa gggaaaaatg 180
ggtcaaaggt tgagaaaggt ttaaaaagtg tgcaaaatgc aacaaacaag aacacaattc 240
ctggtgaagt ttcaaccaag gtgccaagaa 270

<210> 16314
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-H4

<400> 16314

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cgctcgtcgc cagctcgcgc cgccggtctc gcctgcccc tactgcccga cgccgacgcc 180
gccccctccg ccaccgcccc cgccccggt ggtgaaccgc ccgctcgtcgt ccacgccgtg 240
ccctccgcct ccctactcgc cgtccacgcc gacgggcaag tgccccgtgg acacgctgaa 300
gctgctggcg tgcgtggacg cgctcaacgc cctcgtgcac gccgtcgtcg ggaccaacgc 360
cagcgacacc tgctggccgc tgc 383

<210> 16315
<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-H5

<400> 16315

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gtttacgagt agcagttgta tctcgttgac ctcaccgcct gcagggcacc aaggaggaga 120
 tgacttcccc gaagcgggca gcagggcggg aagggtgagg atgcttggcc gccgtcggc 180
 ggggcctccg cggggcgtgc ttccggccgg cggtgacagc ggacggtgac ggcggcggct 240
 cggccaaggg cagccacgtt caccgacgat agacaagata tctgaatgct aacaatcggg 300
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<210> 16316

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-H6

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 gattcagcag aagatagtaa aggagaagat aaagctgcc aatatttat ctagtgaagt 120
 tcaactcaatg ttgaaaggat tattgcacaa agaagctggc agaaggctgg gaagcggacc 180
 aggcggcagt gacgaaatca agaaccacaa gtggttcaag tctgtaaaact ggaagaggct 240
 ggaggccccg cagatcgagc caagcttccg gccgaatggt gctggcaaga cctgcattgc 300
 gaactttgac gaggctgga cgaacatgcc cgtgcttgat tctccggtgg ccagccctgt 360
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<210> 16317

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-H7

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 tagtcagtgc accccatgat ggcacacata catattttgc atacagtaga cacatcacat 180
 gactggcaaa tcaggcatag atctctcacc tcattctcag tcagtatcag gaactatgaa 240
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gattctcgtg g

311

<210> 16318

<211> 355

<212> DNA

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<223> Clone ID: LIB83-009-Q1-E1-H8

<400> 16318

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tcatcgacaa gaaggcgtgg ccgtacgtcc agaacgacct ccgcctccgg gcctcctacc 120
tgcgctacga cctcaagacc gtcacgtctt ccaagcccaa ggaggagaag cagagcctca 180
aggagctcac cggcaagctc ttcagcacca tcgacgatct tgaccatgcc gcaaagatca 240
agagcacccc ggaggccgag aaatacttcg cagcaaccaa agatgcgctc ggcgacgtcc 300
tcgccaagct agcctagatg gaagctaata gatgggttaa cgatggccac gtaat 355

<210> 16319

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-H9

<400> 16319

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attaactatg atctctatga gcctggagat ggatcaaccc gtcgtgcgtt gtttcatttt 120
gtgatgaatg ggagagaggg tatgggacaa gattgatcaa cccgtcgtgc ttacgtctcg 180
ttaattagga gagctaccgc tcggatttgg tgatttgtaa tacaacaacc agtgatgaac 240
aacttcattc acatgtacac atccatcttg aggtgaccga agatattaga cgcaccaagg 300
tgaggacgaa caatagacgg ttgacacgtc agtgcccagc gccaaagctac ctccaaacaa 360
aaaggggggc cgcc 374

<210> 16320

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-A1

<400> 16320

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aagattttttg ttcagtagag acaggaaatt ccttattcat gccagggttaa tgttgtagcag 120
tacaaaagtc ggcctacggc caaggcctta attcagggtg agatacttgt ggagaaagaa 180
tcacaacgag gcattatact agggaaggat ggcaacagca taaagatgct ggcaaccgca 240
tcgagggttg acatccagga ctttctacag aagaacatct accgtgaggt ggaggtcaaa 300
gtgaaggaaa actggcggca ggaccaacta ctctgaagc ggtatcgcta cgg 353

<210> 16321

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-A10

<400> 16321

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agtccaggaa cccacgccc gagcccaccg ccaagctgca ggacaagggtg gatggatgct 180
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gagatttcat cagcctaggg gacttcctcc agataattga cgtcaaacag gaaaaggcgg 300
tgaatgtggt agagttcagc gcgagagcac tgaagatact gacggggaag ctcaccatcg 360
aggcttcgta cagagttacc agccaaacaa g 391

<210> 16322

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-A11

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ccccaaggac aaataacatg tataatcttct gggctacaat gaagtatttc tcaaatttgc 180
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tagtggtact tcttggaact gcactctattg gggagtgagc aagtttggtt tgaatgatcc 300
ttcattgtca aagtcttata gtaagaagaa aaagatgtcg atccaccctg caagaacaag 360
gtgcagcgga gatctttctc ctgcgcgctg 390

<210> 16323

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-A12

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gctgccctcc ctccgcctgg ccccgccccg ccgcgcgggg gacctcgcca ggccccgcgc 180
cgcggccgag gccgcggcgg agagctacgc gtccgcgctg tccgaggtgg ccgtcgagaa 240
cggcacccctc gagcagacgg tctccgacct ggagaagctg gagaaggtct tcgcggacga 300
ggccgtcgcc gagttcttcg acaaccccac cgtcccgcgc gaggagaatg ccgagctcat 360
cgacgagatc gccaggtcgt ccgagctgca gccgcacgtc gtcaacttcc tcaacgtcgt 420
cgtcgacaac 430

<210> 16324

<211> 287

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-A3

<400> 16324

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tttttttctt tttttctctt ttttcttttc tttttttctt ttctctttta ttccattttt 180
tctctcttct tcttttcttt tttttctctc tttttctctt tcttcttttt tttttttttt 240

tttttttttt ttttttttct tctttttctt ttcctttttt tttttct

287

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<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-A4

<400> 16325

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tcccttccat caaggtgaag gtggggggccg tctcggtcgc tctccacac cgtgcatgcc 120

ggtccttcgc ggtgatcagg agtccaagg cagagggccc catccggaga cctgcggcgc 180

ctccgctgtc gccaccgcca ccgatgccac ccaagacgcc ggctctgtcc actcctccca 240

ccctgtcgca gcctccgacg cccgtgaagc ccgctgcgcc acccacctcg tcgcagccga 300

gtcgaccttc tctgagccg aagccagttg acgccacagc ccagatgcgg aagccggtgg 360

ctggggccat gacgctggag tagcagagga acgtggccaa ggacctgcac gagtacttca 420

ag 422

<210> 16326

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-A5

<400> 16326

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tgatgggtctc tccaagatgt ccaagtctgc tcttcagac cagtctcgta ttaaccttct 120

tgacccaaaa gatgtgattg caaataagat caagcgctgc aaaactgact cattcccagg 180

tatggagttt gacaaccag agaggccgga atgcagaaat cttctctcta tataccagat 240

tatcactggg aagactaagg aggaagttgt tagtgagtgc caacacatga actggggtac 300

attcaagact attctcacgg aagctctaatt tgatcatttg cagcctattc aggttcgtta 360

tgaggagata atgtctgata cagcctactt ggataatgtc cttttagaag gagcagtaaa 420

<210> 16327

<211> 398
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-010-Q1-E1-A6
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 agagtgcagc ccaaactgct attgttttga ggattgaaga ttgaaacgaa actttacttc 360
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<210> 16328
 <211> 410
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-010-Q1-E1-A7
 <400> 16328

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 ttaataaacc catgccttgg cttctggaat ttgtttgctg aacctgtggc atggagcctc 360
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<210> 16329
 <211> 387
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-010-Q1-E1-A9

<400> 16329

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taccctgacc tggaggagac gagcaccgcc gcgcaggcca ccgtcgtcct cggcgtggcc 180
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tcgacgacca tggatatgat tattatctat ctagcttgtg gtgggtggtg aacaataata 360
agcgaggccg agctggctgc catacat 387

<210> 16330

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-B1

<400> 16330

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ggtgaagtga tccttgggaa gcagcggctt tccccacaag cccttagtgg tgatctggga 120
acttccatgg cctgggtgga tgacgttaga aagctcaagg tcctggctaa ggccggtgcc 180
cctgaggagt cattgactgc ccaagacaag gggggcaaag ggattgggat tatcccggac 240
agaccagatg tcctttgctt cagacgagag gat 273

<210> 16331

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-B10

<400> 16331

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gagccaccga gctacctgac gggcgagttc ccgggcgact acggctggga caccgcgggg 180
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 aagttcggcg aggccgtgtg gttcaaggcc ggctcccaga tcttcagcga ggttggaactg 360
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<210> 16332

<211> 53

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-B11

<400> 16332

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<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-B12

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<210> 16334

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-B2

<400> 16334

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 aaggaggctg ggagcctgag cgccgagtgg ctggccgagg agaggacca ggtcgtcggc 360
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<210> 16335

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-B6

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 gctcgccgcc gtccgtggcg cacgtggcg gccgggcgcc tacggcggtg gtggcggcca 180
 acgggtacaa cgtgcagatt ctattggacg agaacgaagg ggaggagtcc atcttccgta 240
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<210> 16336

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-B7

<400> 16336

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 accatttgct cctgtgcctt aatttcatgc aagctttcct cacacaaaag tttatgcgcc 180
 acaccgcaa aaacgtgcga cgtgccaatc gactacagg atacatactg ccattaactc 240
 tgaagcaact tcttacctct tcgacgtca cacataaact catgacagag gccctcattt 300

taacacctcc tgaatggcaa aacacgtatg

330

<210> 16337

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-B8

<400> 16337

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gactttccgc tggtagttct gtcgggtggt tgttttaatt tattcatcat gggggacaag 120

gtgaatccct ggtgccattg gcctaatacct caatggaaat tcaacactga gagttctgcc 180

ggcaatctgc acccacctga tgttgggctt gctaatacca attcgggtggc attgcctgca 240

taccacctta acacagttgc tgcacctatg ccatttttcg cagcatcgtc gattgctgag 300

agacctcttc caataatggg cccgagacat gtcacgacgt tggcaccaag tttcgaatcg 360

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<210> 16338

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-B9

<400> 16338

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gaagtctgta gtgcttaaag agcaaccatt ctctttgcag agggaaacat cgatgaacaa 120

accatttttc atgctgttga cattaaattt cagtgatggg tgcagctggt tgagctcctc 180

aattggatgg cctgttgatt ttcagaagcg aaaagacagc ttcgtcagag atagagctct 240

agtccacagg gagttgtact ctgctgcaca gcgcgagtct tgcattgggc aacaagaaat 300

tctggaaaga gagaacctac caagagctga gacgtctatt catggaatcg tgacaaacat 360

cgttaggtat gacactgaag atgaaaag 388

<210> 16339

<211> 380

<212> DNA

<213> Zea mays
 <223> Clone ID: LIB83-010-Q1-E1-C10
 <400> 16339

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 tccacctcct cgtccacgag gtgaggaaac cctagcgacc gaccatggcg ttgctcccgc 120
 gcaccgcgcg gctggccctc ctttccaccc cgcgggcgta ctccgctgcc gctgctgcgg 180
 gcgcctcccc gacgtcccca gcgccatacg ggggcgcccc cccacccggc gatgtcgaag 240
 acggccgagt tcgtggtctc taagggtggac gacctgatga actgggcgcg taagggctcg 300
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 tcccgcctacg acttcgaccg 380

<210> 16340
 <211> 370
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-010-Q1-E1-C11
 <400> 16340

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 agaggccgcc gctgaggagg ggcggcgctca agctccagat cgtgaagacc ctgagcaacc 180
 tcgtcgtggc gccagcaac ggcagcgact ccaagcaagc ggaccgcaac agcttcacaa 240
 gggagcgaag ctacaactga aacgaactgt atcttcagta tttggataca gatgtcgacc 300
 ttgtgtctga agaactccgc tttgggactc gagaggtttt cttagcttgt tggacttcct 360
 tgtttgctg 370

<210> 16341
 <211> 362
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-010-Q1-E1-C12
 <400> 16341

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attattcttg gcagaaaggt gtcacttgat atagctcaag tcgttagatg gaaaactagc 120
ccaacagctg aggttttggc tactgtacgc tatgctgctt catttgcagg tgatggacaa 180
ggatcgccaa ggtgcgggcg aaaaacgcca ggcggctgtc aggtcgcacg aagctaggcc 240
gaagaggcag cgggggggctg cgaatgctgc ggcctccggc ggaggcaagc cgccgaatgc 300
gggcgcctct gcacctagca aggcgcggga ggcaacggca ggcgcgggat gctccaagac 360
aa 362

<210> 16342
<211> 311
<212> DNA
<213> Zea mays
<223> Clone ID: LIB83-010-Q1-E1-C3
<400> 16342

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caatgtcgac aacgtcgtgg acgcgtcact cctcgcccgg ttccttcgtc cgcaagggaa 120
cgaagaatcc caagttaacc aacttaaccg tcaagggccca gctcgccgcg ctccaaaacc 180
acgtcgaatc catcgaccac cagaccgccc acgtccaagg acaccgcac cactgagtat 240
ccgatccaaa acctctggac tctggtgcaa atgcaccgga accggactac accggaggcg 300
aagcgcgcca t 311

<210> 16343
<211> 366
<212> DNA
<213> Zea mays
<223> Clone ID: LIB83-010-Q1-E1-C4
<400> 16343

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tactctgaag gtgaatcccg gtacaaactg cagagcccca aagtgaaagc agctgtgaag 120
gaatacacac aaatttctgc aaagtatggc atttctccag tgaccttagc gattgcattt 180
gtcttgagac atccacttgt ggcacgggct gttttcgggt cgactaaatt gtggcagctt 240

gatgaagttc ttcaggcaac tacagtccat ctttgtgagg aaattgttgc tgagatcaat 300
 gatgtacatg caagataccc taacccttgc ccataaaatt ttgcaaaaaa atctttattt 360
 agcatc 366

<210> 16344
 <211> 386
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-010-Q1-E1-C5
 <400> 16344

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 cctgagactc tggaggcttt tctccaaggc cgacgaggat ctagactcgc tgacgttcat 180
 ccagaagctg gtccgctcct gtggcatgga ccgagcaagc tgcgtgttgg ctggccctct 240
 ggacccggac ctgctcgaga aggtttcaga gcaggaagac gacggaacca ggttcgggaa 300
 aaggcggctt cttttcgacg ccgttaacga agcgtcccg aagctcccct gaacggcgga 360
 actggccgcg taccctggg gcggcg 386

<210> 16345
 <211> 379
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-010-Q1-E1-C6
 <400> 16345

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 acgacggacg gtgccggcgt cggaggagaa gaaagaagaa gtagccagct ctcgtatatg 120
 ccttcttgcc ccatctccga tctggctcgc gtagcgctca tcgccccgt cgtcgccggc 180
 ctctctctcc tctctctcgc ctccctcgcc tgctccagcc gatctatgcg caaggggctc 240
 aacgggtgga acagatctc gtcgatgctc agggacgggt tcgggggtcaa gtattccgga 300
 ttctccaca tacggccgtg cgttttctgt agaggagact gacggattcg tctcagggc 360
 cgtgcccgtt tctgtagag 379

<210> 16346
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-C7

<400> 16346

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atatgcaact aacagcaacg atcttttcta ccttgaagat cagcaacggg atagatgatt 120
acagcaccaa gtcagtgggt aatcatagat agccaaccgc attacgtgca aacgagcttc 180
tgacagatgt acacgtacac ggcgagggag aactctcatg agcgtgatgt ccttccagtc 240
ccctttcggc ttggggctca agctctcccg cgctgctatc cctccctaataaaaagcgagg 300
ggcagtagtt aaaaaggggg gggccgcca ggag 334

<210> 16347
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-C8

<400> 16347

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accgtgaccg ggtgggcggc catgaacgag tccgccggca aggtggagcc cttegtcttc 120
aagagaaggg agaacggccc ggacgacgtg acgatcaaag tgcagtactg cggcattgtgc 180
cacacggacc tgcacttcat caacaacgac tggggcatca ccacgtaccc gctgggtccc 240
gggcacgaga tcacgggcgt ggtcaccaag gccgggcgca acgtcacggg cttecggtgc 300
ggcgaccgcg tcggcgtggg ctgcatcgcc gcctcctgcc tggactgcga ccactgccgc 360
cgctccgagg agaactactg cgaccgtgtg gcgctcacct ac 402

<210> 16348
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-C9

<400> 16348

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cgtgcgcgcc tctctccgca aggccaccgg caccgcccgc gtggcaatgg ctgccagcgc 120
cctgcttgcc ggcggtgcca tggcccagga ggtgctgctg ggcgcaggcg acggcgggct 180
cgtcttcgag ccagccagt tcaccgtcaa ggccggcgac accatcacat tcaagaacaa 240
cgccggcttc ccgcacaacg tcgtcttcga cgaagacgag gtgccgagcg gcgtcgacgc 300
caccaagatc tcgcaggagg agtacctcaa cgcgccaggc gagacctact ccgtcacct 360
cacctgccc ggaacct 377

<210> 16349

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-D1

<400> 16349

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cagataagag tggcactaca ctacaagatg ttctgaaaat gaattctttt gaggctacct 120
ctactgctat tagtcaagcc aggtacaacc cggagtctgt ggggagttat gttgaggtac 180
acatggagca aggccctgtc ctggaagccc ttcattatcc acttgggtgtt gtaaaaggaa 240
ttgcaggaca gacacgattg aaggtaatag tagatggttc gcaagg³gcat gctggcacag 300
ttccaatgaa attgcgccgt gatccgatgg ttgcagctgc agagctcggt gtgactctgg 360
aacgcctctg ttaagagccc aacagtttgc tgaccta 397

<210> 16350

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-D11

<400> 16350

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gtgctcaatc tgacctacac agagttgact tgggacaggg gaacttgaa aggacagaga 120

acatcttatt ttctatattg ttgttttctt tgcataaggg aatgagacga tggttactat 180
tcagaatgtc atttcggtga ttgaaggggg agaagaacct gaacggtatg atcaaaatcc 240
ccaatcacct taccaccaat acctccttcc aaactccaat ttaggtaagg ggcaactgtat 300
catctacagt acaaatccgt ctgtgggctc aagcattcag cctgaatgcg atggatggaa 360
atttaacctt 370

<210> 16351

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-D2

<400> 16351

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taacgagatg caggacgcag cctcggaggg atcgctgccg gttgcagctg aagagaaaga 180
ggagttggcg ttctaggaag gggtagagtt ttgttagggg agccaccgga gttgaggtcc 240
cttgccaagg aacgaacgaa cttgggtgcct gtggcggaca gctgctattg tagctaggcg 300
catacatgtt tttggaaaaa gaaatcgagt gtaacactga catatttatt gcatgtctat 360
ctgtatagac aagtcaataa caccgacgct gttccgctgt tgcatt 406

<210> 16352

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-D3

<400> 16352

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ccaggacggc gtctccaagg agctggcgca cgcctgaaga ccctgatcca tccatttctg 120
tccaccacgc tatgtacgta tgtgtagcag atggtttaca tctacgtgtt agagcccgga 180
gagctggaga agctagctag cgtgcttaca gaataacagc agccaagcaa agccaagggt 240
gtgtatataa taggcatgcc ttgggtttgtg tcagctgcga ctgtatgtat agtttaaacc 300

aagatgaaat ggtactgatg gtg

323

<210> 16353

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-D4

<400> 16353

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gcagaaggct ttgcatctca cttagaagaa ttctgccggt cccaattcag attcttcaag 120

gccaaagtta aaaggacagt tattggatac cgtgtcatgt tcctgcagca aggacgacac 180

caattcaaca gattgtctaa tagacgagca ccatacaagc cactattttg caaactcaaa 240

gcatgaactg ccctctgtat ctaacgaaaa cgaattcaag ttgcaagaa acaaccacaa 300

togaattctt gcaagtgcgt ccataaaca tgaaagtgtt gcacaggcca tgttctgtgc 360

acc 363

<210> 16354

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-D5

<400> 16354

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acacacacac catggcaccg cgttctctgc tggcagtgct cgccgtcgcc gccctcgcgc 120

tcttgcacgc cgcttcggcc aagtcgtcgt ggcttgacag gaggttcacc acggacggca 180

ccgtccgcac gggatacgac gattcgggcc agcagggtggt gatgctccgc ctcgaccagc 240

actccggcgc tgccggcttc aactccaagg agcagtaoct ttacggcgag ttcagcgtcg 300

agatgaagct catccggggg aactccgccg gcaccgtctc gtgcttctac ctctcttccg 360

gcgacggcga cgggcgcgac gagatcgaca tggagttcat gggcaactcg agcggg 416

<210> 16355

<211> 290

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-D6

<400> 16355

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gggaggtggt cgaaccgctg taccctgccg gcagcttcga cccgctcggg ctgcgccgacg 180
acccggatgc gttcggcgag ctcaagggtga aggagatcaa gagcgggcgc ctgccatgt 240
tctccaagtt cggcttcttc gtgcaggcta tcgtcagcgg cacggggccc 290

<210> 16356

<211> 224

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-D7

<400> 16356

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tgcagcgcgga gaagaaggac gcggcggtcg ccctgttcaa cctgtgcatc taccagggga 120
acaagggccg cgccatacgg gctggcctcg tgccactcgt catggggctc ttacgaacc 180
ccaccggagc tctgctggac taggccatgg cgattctgtc cata 224

<210> 16357

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-D9

<400> 16357

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acgaccgccg ccgccgtgct gtccccgccg tccgtggccg ggcttcgctt ggcgccgtca 180
ccccggggcg gcgtggcttt ccgcgcggtg cggggcgagg ggtctgtggc agctcgcgcg 240
gagctgaacc cgtcgctggt gatcagcctg agcacgggag tgtcactctt cctgggctgc 300

atcgctcgctg tcaacttcca gggggagaac atgtgcaatc aagtgcccta acagaacggc 360

<210> 16358

<211> 221

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-E10

<400> 16358

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tgtgaataaa gctgggtgttg cttaccttca gtttgtgaat gccattatgt actgtaataa 180

aaaactctgt attgtactcc ctacgattat cattatgctt t 221

<210> 16359

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-E11

<400> 16359

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caacaggatc acggagctct ggcacaggca ctaccaatca cctcacctgt tcctatcgtg 120

ctccccaggg acggccatgc ggccatcgcc gctgtccctg gccggctccc tgttcatggg 180

gtccgagcac ggggggctgg tggagtacca cttcagccca caggacgggt gggagtgggt 240

agagcacggg acgccccacc ggggcgtgac cctcgtcggc gccctggcc cgtgcttcga 300

cggtcccag ctgttcgtgg tcggctccga cgggcacgtg taccggcggc acatggaggg 360

gaggac 366

<210> 16360

<211> 88

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-E12

<400> 16360

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acacagacca ggacgttgct tcccaaga 88

<210> 16361
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-E3

<400> 16361

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gcttctgtgc acacaacagc gtcattgatg tacatggcag agagattatt ggattacaat 120
tcatgttctt ttggggagaa aatcttcatt tgttgagggc caccgagagg ccaacagaga 180
gtatgaacca cgccagtaag aagtagccaa cgagcttggt tgggaactca tcttctgggt 240
cctttggagg atctgggtgc aactccaatg gatcaacttc aaatggccag acatatcgct 300
caggctgtct acttcttgac aagctccaat catataatct tcgttcttcc tccgttgata 360
gtatagtaaa tgattccttt aggagctcat gttcctttgt taagct 406

<210> 16362
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-E4

<400> 16362

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acgcgccagt cgcattgactg tgccaccgct ccgccagcag aacgagaagt ggtagcgagg 120
ggtggcgcgt cgccaccatg gagggatgat gaccgtgatg gacaattcgt agtcggactt 180
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cgtgttttgg aatgctggga ccgtgaaaca gataaatatg tagccataaa agttgttcgc 300
aatatctgca agtaccgtga tgctgcaatg attgagatag atgtgctcaa tcacctttca 360
gaaactgaaa agtacagatc tcgttgtgtt caaattcaga 400

<210> 16363

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-E6

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cgaggggaagg tgaggagcga tggcgcgcg cggtggtgtcg gcgaagggcg gcgcggtcgc 120
gggcaagaag aaggggtcgg tttccttcac gatcgactgc accaagccag tggaggacaa 180
gatcatggag gtcgcctcgc tcgagaagtt cctgcaggag cgcatacaagg tcgccggcgg 240
caaggctggc aacctcggcg actccgtcac catctctcgc gagaagacca aggtcacctg 300
cacctctgac ggacccttct ccaagaggta cctgaagtac ttgaccaaga agtacttgaa 360
gaagcacaac gttcgggatt ggctacgcgt ggttgctgcc aacaaggacc gaaacgtcta 420

<210> 16364

<211> 221

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-E7

<400> 16364

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gcggcaagcg ccggaagtgg ctgcgccgcy tgctctgcgt ttgcccaagt gtgtcccgga 120
tgcgggccaa ggccgacggt ggcaagtcgt ccgccccctt ttgggacgag tccatcatgt 180
cgtggtacct gtccgtgaga ccggcaagtt ccggttcccc g 221

<210> 16365

<211> 116

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-E8

<400> 16365

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<210> 16366

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-F1

<400> 16366

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gaactttaaa ggtttgagtt ttcctacaat ttcattctgtg ggaccaaagc cagcagttat 120
tcactataaa cctgaagcaa gcacatgttc ggaaatggat gctgataaaa tatatctttg 180
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agacattgct gtgtttccta atgggacgac aggacatgct cttgatattc tttcacgagc 360
accactctgg agagagggtc ttgactatcg gcatggtaca ggccatggaa ttggat 416

<210> 16367

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-F10

<400> 16367

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ctttcctagt acaggcacta catttctttc aatcccagag aaaagctgca gaaaatgaat 120
acctcattac atcaaacttc gaaaagttca gctccaacag aatcatagct taacctcaac 180
atccacaccg gcaaggaact ggagttgcat caacgaatca attgtttggg cagttgggta 240
catgatatca atcagccgct gatgcgtccg gatttccaaa tggaaccgtg agtcctctgg 300
caagtgagga gaggtaagca cacaataaac 330

<210> 16368

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-F2

<400> 16368

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ccgcgacgcg gaggetgctc cccgcgctcc tcaggaccct agctccagcc ggcgcgcgcg 120
gcctctccac cgagaaggct gttggcgag ccgcccgtcg cggcagccac accgctaagt 180
ggatgcagga cacaagcaag aagtcgcca tggaactgat caacgaggta gctccaatca 240
aggttgatgg tcgcattgcc gtctgtgaag gggcttctta aggtgttgga cttggcgacc 300
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<210> 16369

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-F3

<400> 16369

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cagagaagaa aatctggggg tgtttggaag tgggtggcgg gtagtacaga ggtctctgac 240
gatgaatagt tgacaagcag cttccgaaca ggaaacgtaa gcggaggatc tgctacagtt 300
ttgaggcagc ttgtctgttg ccagttgccg ggtgcttcct caaggtcttg ctcatggttg 360
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<210> 16370

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-F4

<400> 16370

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agacttcccc ttgcgggggc tcggcgccat ggtggggccc atcgggacgc tcgtcgtcga 180

gaccgtcgcc actggctact tcacgcgct ccacttcaag gagagcgccg ccgccgcct 240
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 cacgt 305

<210> 16371

<211> 113

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-F6

<400> 16371

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<210> 16372

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-F7

<400> 16372

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gccccggctc ctgccagggt gacggcgag cgcagcggcg tctcgctgtc cgccgccgcc 120

gccggcaagg ggaaggagt ctcagcgggg tgggtgtcca gcccttcgag gagatcaagg 180

gggagctcgc cctcgtgcc cagtcccccg acaggctcgt cgcgcgccac aagttcgtcg 240

acgactgcga ggcagccatc aacgagcaga tcaatgtgga gtacaacgcc tcgtatgcgt 300

accactccct cttcgcttac ttcgaccgag acaacgtggc cctcaaagga tttgccaagt 360

tcttcaagga atccagcgac gaggagaggg agcacgccga aaagctcatg gagtatcaga 420

ac 422

<210> 16373

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-F8

<400> 16373

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cgggaccatc tactgccccca ccagcagcac caagcactgc cccagcctct gctaacagga 120

tgatgaactt tgtcagtgcg ggagtagagg cccagggttg gagcagcagg caacaggctg 180

ctaacaatga ggacattgag ctgcccgatg agagtgaaga tgaggaaccc gatgtccaaa 240

ttgcgagaga gagcgcttct gctgcggtat ttggtgagct cggcaagaga gctgccgaga 300

acaacgagga aagttcaggt gcccaaggga atgagcagct gggcgccctc gagaggataa 360

agagacgacg ccaatagtct aactctgcct gccaatatga gaacccatgt gtgca 415

<210> 16374

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-G1

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agagcaacgc cggcttcccc cacaacgtcg tgttcgacga agacgaggtg ccgagcggcg 180

tgcagcctc caagatctcg caggaggagt acctcaacgc gccaggcgag acctactcgg 240

tcacctcac cgtgcggggc acctacgggt tctactgca gccgcaccaa ggagcaggaa 300

tggtcggcaa gatcacagtc aactaagagc tagccatcca ttccatgcat cccgatctgt 360

atgtactccg cccgtccatg gatgatgcat cc 392

<210> 16375

<211> 388

<212> DNA

<213> Zea mays

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agagatgtct ttcaggagcc tgattcagga catgaaggac gagttcggga gcatctcgcg 180
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gggaccgtcg gaggcgatgg atcagagctg ctggtcgcag ctgcccccg agctcctgcg 300
ggaggtgctg gtgagaatcg aggcacgga gagctggtgg ccagcgcgca aggacgtggt 360
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<210> 16376

<211> 53

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-G12

<400> 16376

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<210> 16377

<211> 205

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-G2

<400> 16377

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gcaggagcag cacgtgaacg aggaagatgc gaagtggcga gcgtgccag ccacacgacg 180

cggataagca ggccaggaac gggga 205

<210> 16378

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-G3

<400> 16378

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gaagaaggaa acgctaggcg gtttgcgaaa tccgaagaat catttgaaga acgccctaga 180
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agaagaccga tggcatccaa cgggtcttcg tcatatggcc gaggatagca gtggcagtaa 300
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<210> 16379

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-G4

<400> 16379

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gcttcctcac gagcagcaga ccggccgtat gcacggcgac gccgccaat aagcgcgcga 180
ggaggccgtc gaggatctcg tgcagggcgt ccggcgatga caaggacaag gtcccgtcgt 240
cgggagggag cgatcttggg gtcaagcagc tcgggaagct ggccatggtc gcgctggccg 300
ccggcgttct ggtgctcggc cccgtccaca gtgccgtggc ggccaagtcc gggagcaagg 360
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<210> 16380

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-G5

<400> 16380

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aggaacaggc caaagctcat agcaataaga tagaccccaa gcagaagtct tcaaaacctc 180
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tggatgattt gaaacacaat actgacgatt ttggatcaag tgctctgatt ggtgaaggtt 300
cttatggacg agtatatcat gccgccttag atgatgggag gcaagccgca gttaaaaaac 360

ttgatgcac tgaaaatgac cctaataatgatg agttcctcaa acacgtctca acggcatcaa 420

a 421

<210> 16381

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-G6

<400> 16381

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agtaccgtgg tatgtttcat gcactgggta cagtctaccg tgaagaacge tttcgtgctc 180

tatacaaagg gtggcttcca tctgtaatcg gacttggtcc atatgttggt ctcaactttg 240

ctgtatatga gtccctcaaa gactggctac tccagacaaa ttcatttggc cttgcaaattg 300

actactagct gcacgtagtt acaaggcctg ggtctggagc tgtggctgga accactggcc 360

agaactgttg cagac 375

<210> 16382

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-G7

<400> 16382

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cccgacaagg caggctgggt cttgacgacg aacgttgctg ccaagcaatg gctggagtcg 180

aaggcggcat cagaactagt aactgtgtaa actggttact ctggcgcgta cataggatta 240

tttttccgtg taagctacat gtgttctccg atatatgcag gtgaagatgt tgagttagcc 300

tatctccgac cttactcatc cgtataccta tattcaaatt tcaactctacg atttataatg 360

aaatttaaaa tagatcttaa ataagaaaaa aataggggca gat 403

<210> 16383